

NEWS AT HOME

Acid Rain From Sea Poalted 35 Alliod Slates Conversion Plant 7 Atochem, Toray in Accord...... 4 Caprolectem Sperkad by Housing., 3 Captiva Shippers Accusa ICC..... 4 Ciga-Gelgy, Chiron Plan Venture... 5 Dicotol Moves Ara Preisad 5 Oinoseb Hnitad...... 3 Du Pont Wrapa Shall Acquisition ... 9 Eastman Kodok in Giolech Pact.... 9 Fortilizer Group Goos Challenges . 30 FIFRA Reform Survivas 7 G.E., Huntamon Fonn Vanture..... 3 Glaxo Slates R&D Facility 9 Icahn Targete USX...... 8 Mine Waste Streams Studied 20 PE Expanded By Allied..... 4 Psorlasia Treatment Okeyad 7 Schenectedy Starts Fecility 4 Sulluric Piant Sold to Avtex 4 Superfund Showdown Bagins 5 Toxics Rules Reviewed 7 UCC, GAF Sign Pect 4 Vitamin E va. Nitrosamina 4 Westa Elfects Study Funded 24 Waste Tanks Restricted 20

NEWS ABROAD

A&W Names Paul Shopal Toli Revised 7 Crude Subject to Contract 7 Du Pont Backs CFC Limit... Hercules Selta in DMT Vanture 7 Monsanto Selts Unit 9 Palm Oit Goes Private..... 5 R&D Emphasta la Major Shift 58 Toyo Sods Sells Unit......30

THE MADKETS

I LE MYDVE	9
AGRICULTURAL CHEMICALS	48
ALIPHATIC ORGANICS	15
AROMATIC ORGANICS	13
COATING MATERIALS	43
ORUGE	18
FINE CHEMICALS	18
FLAVORING MATERIALS	26
HEAVY CHEMICALS	48
OILS, FATS & WAXES	11
PERFUME MATERIALS	26
PLASTIC MATERIALS	43

The fast shipment and 99.97% purity are free.

GRANT CHEMICAL Division Ferro Corporation Baton Rouge, LA



HOT MELT WAXES, CUSTOM FORMULATIONS, SOLVENT AND WATER EMULSION WAXES,

WAXES FOR COATINGS, LUBRICATING AND COMPOUNDING

CONCORD CHEMICAL CO., INC.

Telephona (600) 956-1526

CUSTOM **PROCESSING**

CPS offers a very broad range of specialty chamical processing and edivant retining services, including cuelom menufacturing of specialty monomers and polymers, at two large, modern, wall equipped facilities localed in Old Bridge, New Jareey and West Momphie, Arkensee.

Unit Processes

. ALKYLATION . BATCH CHLORINATION . CONTINUOUS

. ESTERFICATION . EXTRACTIVE . METHYLATION

FRACTIONATION . POLYMERIZATION . FULL VACUUM . QUATERNIZATION • WIPEO FILM SULFONATION

. TRANSESTERIFICATION . TEMPEREO WATER

Other Services Distillation

. BLENOING . CENTRIFUGING . CRYSTALLIZATION · FILTRATION

. REFRIGERATION . PILOT PLANT . HIGH TEMPERATURE . SOLIOS HANDLING . VACUUM ORYING

Write for Processing/Facilities Bulletin #781

CPS CHEMICAL COMPANY P.O. BOX 162, OLD BRIDGE, NJ 08857

Old Bridge, NJ W. Memphia, AK (201) 727-3100

(501) 735-8750



CMR MARKET INDEX

CHEMICAL MARKETING Oct. 10, 1986...... 151.23
REPORTER's market index of chemicals and related materials Sept. 26, 1986...... 152.04 (100=1974 everage), based on Sept. 12, 1986. 152,58 97 key commerciel chemicale, Oct. 11, 1985...... 153.21 appears alongside with deta for two weeke ago, last month and laat year.

Chemical Prices Start on Page 40

ACETAMIDE

N Sulfamic Acid

645 FIFTH AVENUE, NEW YORK NY AND 1993 ASSESSED.

VELSICO PECIA

SAME

Be right the first time.

on the tells of Cadmittin, Coheft, Arrive Thuoborate, Lead, Manganese, Nickel, Tin, and Thuo



For a FREE, customized hooklet of tech data, specifically of

CHEMICAL MARKETING CUE

PARAXYLENE: Producers reduce prices to

TALL OIL. The price falls in response to decline of

PVAc: Margins are squeezed by the rising cost of

ALUMINUM SULFATE: Producers post \$8.00

Reagan Signs Superfund 3

The French were to the text

INSIDE CMR

NEWSPARIE

CLEAN WATER: An \$18 bilion extension of the 1984 Clean Nater Act goes to the President. The administration objects to he funding total Page 3

SULFUR SHIFT: Continued rawdown of Canadian sulfur locks will alter the fundamentals of the business. The quesfon is: how soon?....Page 5

DAF OUTLOOK: The specially chamicals and roofing materials maker expects to confinue growth. Mr. Heyman rules out stock repurchase. . Page 9

HENLEY SELLS: The group sells 49 parcent interest in the Green Rivar, Wyo., soda ash operations of its General Chemical Corporation.....Page 3

CHEMICAL TRADE: SOCMA's Ronald Lang says the upcoming round of trade talks will be vital for the chemical industry......Page 7

USX CHEMICALS: The company follows up on announced intention by divesting chemicals via e stock sale and a leveraged buyout......Page 9

CSMA TOXICS: The chemistry association establishes a center to aid consumers on the diposal of household producis..... Page 28

ale Nawa Index on Back Cover



CARBONYLDIIMIDAZOLE

A remarkable agent that undergoes nearly all reactions for the introduction of C O MOIETY that phosgene does, without the HCL byproduct or toxicity. Call us today.

PPG Industries, Inc.

FINE CHEMICALS 12555 West Higgins Rd., Chicago, IL 60666 TOLL FREE: 800-323-2487

In Illinais (312) 694-2700

Martifin®-Alumina Trihydrate Special pigment for paper

and board coatings

Lonza Inc., 22-10 Roule 208, Fair Lawn, NJ 07410 · 201 794-2400 Technical Service: 800 526-7850 • Customer Service: 800 631-3647

Products that are Easy to Handle from a Reliable Supplier (800) 631-8050



Where the customer is king

Sodium **Sulphate**



CAUSTIC

Putting Quality and Service First

159 Boden Lane, Natick, MA 01760-3107

HoltraChem, Inc. 800-343-6470

FIREBRAKE ZB

Multifunctional flame retardant and smoke suppressant for polymer systems. U.S. Borax delivers. (800) US BORAX, toll-free

3075 Wilshire Boulevard, Los Angeles, CA 90010
BORATES, EXPLORE THE POSSIBILITIES.

CAUSTIC SODA





(Quality + Commitment = Satisfaction)



The HoltraChem formula works because:

a We share information with our customers. They rely on our expertise and trust our knowledge.

a Our people have the experience.

This is reflected in the relationships our sales/service forces have established with our customers. This results in a network of Information to them that is second to none.

a Me deliner: On-Time; to Specification and at Compelitive Frice.

We appreciate the constraints of our customers' schedules and are constantly aware of the need to improve their competitive position by reducing costs.

Our quarterly Caustic Soda Review is a clear example of our ability to stay current with developments affecting our products.

In short, HoltraChem's formula for success is based on our value to our clients. This value is determined by the quality of our expertise and our continuing commitment to one prime objective...

CUSTOMER SATISFACTION.



Call toll free: 800-343-6470

New Orleans, LA



150 Soden Lane (latick: MA 01760-3197 Telephone (617) 635-2510 Telex Will 948456 Gable: HOLTRACHEM:

Battimore, MD (501) 561-5756 Charlotte, NC (704) 846-4778 Giffon NJ (201) 778-7971 Fightsauken, NJ (809) 685-2113 Richmond, VA (804) 379-5152 Reagan Signs Superfund Bill

President Reagan, disregarding advisers who said fund bill as he opened a rally at Grand Forks, N.D., for the superfund program is too costly, signed the \$8.5 Sen. Mark Andrews (R-N.D.) who is running for re-elecbillion reauthorization bill Friday, extending the toxic tion. waste cleanup program for five years.

Chemical Manufacturers Association, which strongly urged the White House to accept the controversial program, called the bill "a significant congressional achievement that not only strengthens the cleanup program, but provides Environmental Prolection Agency with a stable source of funding."

Sen. Robert Dole (R-Kan.) took the Senate floor to tell colleagues he had been informed that President Reagan signed the legislation aboard Air Force I Friday morning as he flew to campaign for Republican congressional candidates.

President Reagan announced he signed the super-

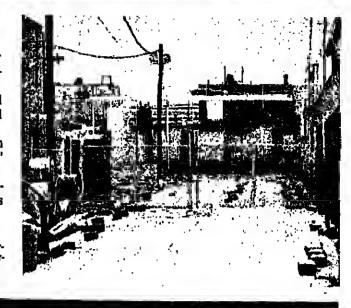
Explaining his action, President Reagan said he had concerns about the bill'a financing, but the health and safety of Americans are his highest priority.

As late as Friday morning, White House spokesman Albert Brashear had said, "We'll have to wait and see" whether the President would sign or veto the bill.

Some advisers in the Treasury Department had repeatedly urged a veto, saying they opposed the taxes

Continued on Page 12

SUPERFUND SITE: Without the extension of the lew, the superfund progrem, which ended up struggling this yeer under emer-gency funding meesures, would have been shut down.



Henley Group Sells Stake In Soda Ash Operations

ical Corporation subsidiary to ACI International, an Australian glass packaging producer, for \$100 million.

As part of the transaction announced tast week, Heniey plena to pour most, if not all, of the proceeds from the sale back into ACI by purchasing a 10 percent sinke in the Meibourne-besed firm.

The Greeo River operations consist of a trona mine and processing plant, with an annual capacity of 2.2 million short tons of chemical grade ash. ACI will take some of the output for its international glass opera-

loaddition lo glass, soda ash is used in the production of chemicals, detergents, paper and other products.

Henley said the deal with ACI will not aflect its synthetic sodo ash operation at Amherstburg, Ontario. Earlier this year, Henley closed its synthetic soda ash operalion in Syrscuse, N.Y., which had an annual capacity of 700,000 tons.

Richard R. Russell, president of General Chemical, sald last week that the transaction with ACI "shows people we're going to stay" in the soda ash business.

Allied Corporation, now Ailled-Signal, hod been looking for a buyer for the Green River operation, and speculation about n sale continued after the merger with Signal and the

court action, organized labor says the

revised trade secret provisions in the

Federal hazard communication stand-

ard fall far short of needed improve-

Margaret Seminario, AFL-CIO's associate

director for job safety and health, says the

final rule "Is not going to change things vary

much" from the interim rule that has been in

The hazard communication standard origi-

uls, pattern, process, device, infor-

OSKA modified the definition by allminat-

ally defined a trade secret as "any confiden

(including chemicat name or other unique

ellect since last Novembar.

do not know or use it."

alsws oo trade secreta.

Trade Secret Provision

May See Further Court Test

Warning that Occupational Safety & OSHA put the new longuage in the preamble Health Administration may face further to the standard rather than in the rule itself.

nation or compitation of information in order to force agency action.

Miss Seminario points out, however, that by reverse engineering."

denics identifier) that is used in an emark business them are the court in the cour

Wer an advantage over competitors who of appeals, which upheld its preemption of appeals, which upheld its preemption of

the parenthetical phrase. The US Court of

The court ordered OSHA in May 1985 to

The court ordered OSHA in May 1985 to

Pesis for the Third Circuit balleved the axtend coverage to all other business sectors axtend coverage to all other business sectors.

menthetical phrase gave trade secret prounless it could find "reasons why such appliunless it could find "reasons why such appliunless it could find "reasons why such applition to items oot traditionally given such testion by state taws. Eliminating the agency to "reconsidar a trade secret defination and the agency to "reconsidar a trade secret defination and the agency to "reconsidar a trade secret defination and the agency to "reconsidar a trade secret defination and the agency to "reconsidar a trade secret defination and the agency to "reconsidar a trade secret defination and the agency to "reconsidar a trade secret defination and the agency to "reconsidar a trade secret defination and trade secret defination and the agency to "reconsider a trade se

Tase makes the definition consistent with nition which will not include chemical ideas is say that it readily discoverable

loyer's business, and that gives the em-

secret protections.

lubsequent formation of Henley Group. like G R. Mariin Wright, product sales innnager gas.

Henley Group Inc. has sold a 49 per- for soda ash at FMC Corporation, said last cent Interest in the Green River, Wyo., sold ash operations of its General Chemash industry.

> Up until now, ACI has not been a major purchaser of US soda ash, but Mr. Wright expects the Green River plant to become ACI's primary source of the maleriat. That could mean a nel increase in demand for US soda ash of up to 250,000 tons a veer, accordng to Mr. Wright.

US producers are running fairly close to capacity, but prices are still depressed, so a further tightening in the market could help prolitability for the industry.

A July price increase of \$4 per ton for non-contract customers apparently succeeded, as did a September increase for hagged shipments. Producers are now in contract negotiations with their large cuslonners, and the success of the recent increases "definitely sets a lone" for the discussions now in progress, according to Mr.

The Green River operations started showing a profil in the second half, but will still be In the red for the year as a whole, Mr. Russell sald last week, but the outlook is "very strong for next year," he added.

"We dld on a wful lol to make ourselves the low-cost producer," Mr. Russell sald. He pointed, for example, lo labor concessions on wages, a renegotialed coal contract and instollation of a new pipeline which will give the Green River operations access to cheaper

"We have yet to see what OSHA will do to

Although the Interim rule has been in ef-

fect for almost one year, Miss Seminarlo says

The OSHA hazard communication stand-

state laws only regarding the manufacturing

tity information that is readily discoverable

enforce itiegal claims of trade secrets" as a

device for refuing to disclose toxic dangers,

Chemical Marketing

VOLUME 230

Number 16

Clean Water Bill Goes to White House

opproval and sent to the While House hursday an \$18 bililon extension through 1994 of the Clean Water Act. designed to curb pollution of the nation's lakes and streams.

The bill, unanimously approved a day earlier by the House, was passed 96-0. The contpromise measure, worked out after months of negoliations, could provoke a veto by President Reagan. The administration objects to the lotals approved in the original Senate and House bills.

"tt would be e sad day, a tragic day for the notion if the President vetoes this legisla-

tion," said Sen. George Mitchell (D-Malne). Earlier, Rep. Robert Roe (D-N.J.) called the bili "a mejor step forward in our efforts to preserve the quality of our water ... It is a aound ond reasonable approach.

Rep. James Howard (D.N.J.) sald the bill "will provide the basis for fighting water pollution into the 1990's" and noted that it "sets tough deadlines for industry to comply with poliution control and sets up new, innovative programs to deal with spectfic poltu-

The bill authorizes \$400 million for a new, Federal-state program to controt non-point source pollution, which is believed to account for 50 percent of all poliution in the nation's

Each state would be required within 18 months of enactment to prepare and submit safaty data shaets continue to be put out by manufacturers wrongly claiming trade for Environmental Protection Agency ap-She also notes that OSHA has not issued a proval a managament program for controlling non-point pollution, such as runoff from farm fields that have been treated with proposat to expand the rula's coverage of workers outside the manufacturing sector, and warns, "we may have to return to courl

Federat grants of up to 80 percent of state implementation costs would be made available to states whose programs are approved by EPA. No state could receive more than 15 percent of Fadaral non-point potiution control grant funds.

In key regulatory changes, the bill extends compliance deadlines for industries to comply with national discharge limits, and requires EPA by December 31, 1986, to promulgate final toxic pollution limits for industries producing pesticides and organic chemicals, plastics and synthetic fibers.

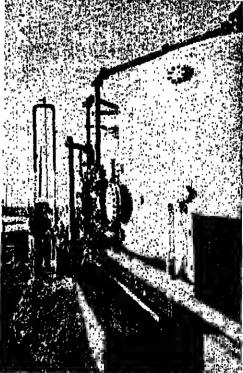
It restricts the availability of variances

The Senate gave final congressional from national discharge limits for industrial facilitles, and prohibits, except in a few circumsiances, the weakening of cleanup stan-dards when industrial and municipal discharge permits are renewed or reissued.

The bill also requires permits for atl discharges of slorm water from industrial focilitles, as well as from alt cities with populations over 250,000,

The bill establishes a new program for cleaning up toxic "hot spols," which are waters that will not meet water quality goals even after industrial dischargera have inslatled the best available cleanup lechnotogles required under existing law.

It also requires atates to Identify the individuat dischergera responsible for toxic pollutton, and propose strategles for reducing toxic discharges from these facilities.



WASTEWATER TREATMENT: The chemical in-dustry suffered a setback in newly passed legis-lation in that it requires to be renewed every five

Butadiene Limit Mulled By Occupational Health Agency

Occupational Safety & Health Administration has published an advanced notice of proposed rulemaking calling for public comments on 1,3, but addene, the petrochemical used to make synthetic rubber. OSHA made a preliminary determination in April that a revised agency standard for BD could prevent or reduce the risk of exposure to a sufficient extent and agreed with an Environmental Protection

Agency analysis that the chemical is a probable human carcinogen. Although OSHA ia developing its own risk assess- C.H. Kline Bought ment, EPA estimated risks to workers in the monomer and polymer industries at By Investment Group 22 to 80 and 148 to 838 extra lifetime cancer cases, respectively, among approximately 480-740 monomer workers and 4,800-7,500 polymer workers currently exposed to BD.

OSHA says it believes that it is technotoglcatly and economically feasible to reduce workplace exposures through engineering controls, work practices, and personal pro-

In 197t, OSHA a dopted an eight-hour timewelgitted average of 1,000 parts BD per miillon parts of utr

In seeking industry comment, OSHA ssys It is particularly interested in data on the heatth effects of 1,3-butadiene, permissible exposure levels, appropriate engineering controls and personni protective clothing.

The agency is also seeking information on current exposure levels, employee training. medical surveillance, costs of protective measures, environmental effects of a revised BD standard, and potential impact of a new standard on small businesses.

The US produced about 2.5 billion pounds of BD in 1985, 70 percent of which was used to

Degussa Establishes A UK Operation

Degussa AG says it has established a new untt, Degussa Pharmaccuticals Limited, in Cambridge, England,

The new company is marketing Degussa drugs in Great Britain. The program will concentrate on products for cardlovascular and respiratory diseases as well as anal-gesics. The venture could see annual turnover of approximately \$12.5 million in the early ninetles.

Degussa Pharmaceuticals Ltd. will be responsible for clinical trials and applications for product license of new products coming from Degussa research and development as well as other preparations which may be ilcensed from third parties.

Carbide Reorganizes Chemicals, Plastics

Union Carbide Corporation President and chief executive officer Robert D. Kennedy announced that the corporation is realigning ali of its Specialties and Services business units into the company's Chemicsls & Plastics and industrial Gases Business Groups.

Following this reatignment, the corporation will operate with three business oups: Chemicals & Plastics, Industriat Gases and Carbon Producta.

Mr. Kennedy said that the realignment further streamlines and aimplifian the company's structura. He noted that this realignment followed the announcement by Mr. Heinn F. Tomfohrdo fil, Union Carbido vice-president and president of Group, to retire at the end of tha yeor, and litat Mr. Tomfohrde's plans antered into the decision to realign the business group.

Mr. Kennedy said that the Medical and industriat Services unit, including coattings service, Linde Homecare and spe-cialty products, will become part of the Industrtai Gases Business Group. Rayinond L. Broemmelalek, vice-president of Medical and Industrial Services, will report to John R. MacLean, Unton Carbide vice-president and president, Industrial

C. H. Kline & Co. of Fairfield, N.J., has been bought outright by Sunwestern Invest-ment Group, s ventore capitat firm based lo Dailss. Kilne & Co. has annust sates of s round \$8 million, and about 80 percent of tts outatanding shares were owned by Dr. Charles H. Kitne, who founded the concern as a one-man conaultaney in 1958, the balancs of the stock belonged to Ktine company em-

Tom H. Delimitros, senior vice-president of Sunwestern, has been elected chairman of Kiine & Co. to succeed Dr. Kline, who has mc odvisor to the board Michsel J. Bennett, who joined the company in March as president and chief operating officer, takes on the added position of chisf executive offi-

Also continuing as officers are Edward J. Kliff, executive vice-president; Andrew A. Boccone, executive vice-president of Kilne & Co. and president of its Findtech, Inc., subsidlary, and Thomas A. Gaivanek, vice-president. Warren E. Staudt continues as manag-ing director of Kitne SA, a Brussels

Kline & Co. Initially concentrated on the chemical and mineral industries, and later expanded into plastics, packaging and the graphic srta, petroleum, cosmetics, cleansers, pharmaceuticals, other consumer and tostitutional products and such hightechnology fields ss biotechnology, electronlcs, cersnites and other advanced materials.

Arco and Carbide Combine on MTBE

ARCO Technology, Inc., a unit of ARCO Chemicsl Company, and Union Carbide Cor-poration have agreed to offer for license a process to produce methyl tertlary butyl ether. The process combines ARCO's cats-lytic MTBE unit with Union Carbide's proprietary molecular sleve methanol recovery

The approach integrates ARCO's experience in the manufscture, marketing and licensing of MTBE with Union Carbide's most recent developments in molecular sleve technology. The result is the most advanced MTBE process technology available today, the Iwo companies cialm.

ARCO says it is the largest producer of MTBE and the worldwide lesder in oxygenated fuels production. Its process has been licensed to refiners in the United States, Asla, the Middle East and Europe. Over 1.2 million metric tons per year of MTBE produced by the ARCO process have been installed, according to the company.

Kerr-McGee Slates TiO₂ Joint Venture

Kerr-McGee Chemicsl Corporation says tt has formed a joint-venture with a group of Middle Eastern investors to build and operyear titanium dioxida plant in Yanbu, Saudi Arabla. The facility la due on line in lata 1889.

The new venture will be catled Crystsl Pigment Company. Karr-McGee will hold a 25 percent steka in the company as will Shalrco Ltd. of Jeddah, Saudi Arabia. The remaining 50 percent interest will be held by a consortium of privota Saudi companies and the Kuwatt-based Gulf Investment Group. Korr-McGee claims Crystal Pigment will be the largest privately held chemical company In Saudl Arabia.

Tha TIO2 plant will use Kerr-McGee's pro-prietary chloride-process technology.



Kiaus R. Romar, who has been appointed president of McGean-Rohco, consisting of the McGean Division, the Rohco Division, the Cas-

Du Pont Takes Option On Specialty Firm

E.I. du Pont de Nemours & Co. hss purchased sn option to sequire ETD Technology Inc., Shoreview, Minn., a systems supplier of specialty chemicsis and control processes for electroplating printed wiring boards.

As part of the strangement, Du Pont has sequired the right to sell ETD's ehemistry and control systems to printed wiring board fabricators outside the US during the option

ETD's ms jority owner is CssChem Group, Inc. of Bayonne, N.J. ETD was formed in t981 by Economic Laboratory, Inc., St. Paul, Minn. CasChem purchased a controlling interest in the firm in late 1864.

ETD's process chemicals and analytical Instruments are designed to "offer quality control" of electroplating processes in the production of prinled wiring boards to "help decrease costs, increase yields and reduce consumption of pisting bath chemics additives," seconding to CasChem.

IMC Acquires Phosphate Assets

International Minerals & Chemical Corporation has completed the acquisition of Brewster Phosphate's phosphate rock proc-essing plants in Central Ftorida. IMC has also acquired the rights to Brewster's Lonesome and Haynesworth phosphate rock reserves.

Brewster is a partnership of American Cyanamid Company and Kerr-McGee Corporation, with Cyanamid the majority owner.

The transaction completes Cyanamid's withdrawal from the phosphata fertilizer business. The company had earlier discontinued the sale of dismmonium phosphate following the termination on June 30 of longterm production contracts.

Adhesives Unit Sold

Genesco Inc., Nashville, Tenn., has agreed to setl its General Adhesives Division to Inbolding company, for an undisclosed amount of cosh. General Adhesives was founded as a division of Genesco in 1838, and currently employs approximately 120 people.

ECMRA Award

Tha European Chemical Marketing Re search Association last week presented the first "Lawrle Waddams Award" to Sunlo Takelchi, manager of corporate atrategy and planning in the chemical group of Mitsublishi Corporation of Japan. The award is named for the founder-chalrman of ECMRA.

Chemical Marketing Reperter

Founded October 18, 1871, by William O. Alsen Orrected 1900-1942 by Harry J. Schnell Schnell Publishing Company, Inc. 100 Church Street, New York, N.Y. 10007-299 (212) 732-9820. Telex Number 226113 CURUR. Ceble Address: Reporter, New York Copyright 1986 by Schnell Publishing Company, Inc.



Curlis A. Dayrup ASSISTANT MANAGING EDITOR Willism Goodwin Owen Keen WASHINGTON EDITOR Glann Hass, 1057C National Press Buking

Wsshington, D.C. 20045 SENIOR EDITOR Jamaa V. Gubitosi STAFF EDITORS

Ronald Baglay, Nicholaa Boyla, Stepher Kearney, Philip Mann, Michael McCoy, Agree CONTRIBUTING EDITOR

BUSINESS STAFF

DIRECTOR OF ADVERTISING BALES- J. Rossi

DRECTOR OF ADVERTISING BALES-3. Horse Doren

ASAISTANT PUBLICHER- Don L. Richards NEW YORX (212/732-8820)- Amanda H. Soc. Xennelh M. Cerroll: Robert W. Wakefield, M. Wileon S. Winney CHICA OO (312/577-S80)- Charles H. Osstvam Jemes C. Oestmenn, Arington Publishers Representatives, Inc., P.O. Box 1555, Arington Heights, III. 80006

HOUSTON (212/732-8820)- Wilson S. Winney Schnell Publishing Company, Inc., 100 Charles Street, New York, NY 10007-2894

LOS ANOELES (213/450-9001t- Richard W. Welker, R.W. Welker Company, 2716 Occupents Bouleverd, Suite 1010, Santa Morita Calif., 90405

SAN FRANCISCO (415/788-6855)- Richard W.

Calli, 90405
SAN FRANCISCO (415/788-6855)- Richard IV
Walker, R.W. Welker Company, 2718 Own:
Psrk Boulevard, Suite 1010, Santa Merica
Celli, 90405
EUROPE 1331/4508-8695]- Robert Brockman

American Publishers Representatives inc. when American Publishers Representatives inc. when American Publishers Representatives inc. when American Publishers Representatives in American American Inc. American Inc

OPIL CHEMICAL BUYERS OFRECTORY-OWN PUBLISHER Arthur R. Kayaler



CHSMICAL MARKETIVE N. PORTER ISSN-5900-691 N. 236, No. 16, October 19, W. 236, No. 19, October 19, October 19, W. 236, No. 19, October 19,

SCHNELL PUBLISHING Chairman of the Board Lear Scrael of close "President". Arthur Fill sweet Sara Presidents, Sive S. Audinocce Sara Presidents (Sive Sara Presidents) (Sive Sara Pre



tion of the LLDPE process was responsible for

Searle Case Must Be Tried, **Court Rules**

Without comment, the Supreme Court lasl week rejected an appeal by G.D. Searle & Co., seeking to dismiss a lawsuit filed by a New Jersey woman who claims the firm is responsible for a siroke that paralyzed her 23 years ago. Susan and Watter Cohn of South Orange, N.J. sued Searle in 1974, charging that Mrs. Cohn suffered a stroke from taking the com-pany's birth control plti "Enovid" several

years esriler. Searle said the suit should be dismissed because of New Jersey's statute of timitations requiring such etalms to be filed withth two years of the discovery of the connection between the injury and its atteged couse.

The Colins were found to have become aware of life possible link between Mrs. Cohn's stroke and "Enovid" in 1970, meaning they had until 1872 to file sutt.

But a New Jersey law said the two-year deadline may be suspended for out-of-stale companies sued in New Jersey. Scarle is adquartered in Skokle, Ill.

The law was overturned in another case in 1983 by the New Jersey Supreme Court. The Conlinued on Page 15

Ex-Im Charter **Backed by Industry** Signed Into Law

A bill extending the Export-Import Bank Charter for six more years, and strongly backed by US phosphate producers, was signed into law by President. Reagan last week.

This sends an important at gnol to both our exporting community and foreign suppliers that American exporters will continue to be able to compete vigorousty for husiness throughout the world, the President sald in a written statement.

The new law is supported by the Fertilizer institute because it bars the use of Eximbank funds to establish or expand production of another nation's export commodities if such products are in world surplus, if they compele directly with aimiliar US products, or tf loan sasistance would create substantial injury to US producers.

TFI says US producers.

TFI says US phosphate producers will benefit because North African phosphate producers. dicers will no longer be ellgible for Extmbank support.

Gary Myers, TFI president, saya \$200 million in Eximbank loans to North African producers from 1978 to 1886 was equal to a single year's loss of \$200 milition in market share for US phosphate producers and a \$450 million drop to domestic employment in-

He said the revised law "wilt help slow tha damags done to our phosphate producers and their employees."

Butene-1 Levels Off Sulfur Shift: Price Rise After Spectacular Gain **Seen Coming Despite LLDPE Growth**

roads. After ten years of spectacular yesr. But it now appears that this forecast growth as a co-monomer in linear lowdensity polethylene production, the C4 alpha-olefin is coming under increasing pressure from two other alpha olefins, hexene-1 and octene-1. As a result, consumption of butene-1 is expected to level the early 1990's. off through the decade as its largest enduse, LLDPE, grows rapidly.

It has been s heady decade for butene-1 makers. Before the introduction of tinear low-density polyethylene on a commercial scs le in the mid-1970's, butene-1's use in the chemical industry stood at under 10 million pounds annuatly. In small quantities, it was employed in the production of butylene oxide, mercaptan, valeric acid and some process solvents. But when LLDPE hit the scene, demand for butene-1 exploded. From 1975 through 1985, chemical use for butens-l rocketed from to million pounds to 335 mil-

Earlier projections Indicated that butene-1 consumption would continue to boom through 1987. One prediction had butene-1

trends point to rapid throads into the LLDPE co-monomer market by hexene-1 and octene-, and some analysts now predict that but enewill be teft behind as LLDPE demand continues to grow st near doubte-digit rotes into

One major LLDPE producer now saya that hexene-1 and octene-1 are growing at Iwo times the rate of butene-1. The US linear low-density polyethylene industry is making an especially rapid conversion to the higher alphs olefin co-monomers. The key here, industry experts say, is that hexene-1 and octene-I produce higher quality forms of LLDPE, such as stretch film, which attract higher prices than commodity grades, and thus greater interest from producers. As one LLDPE producer bilthely stated, "valuesdded prinducts are the name of the game,"

The major changes in monomer selection is coming in the "Unipol" PE technology used and licensed by Union Chrbide, and the "Dowlex" LLDPE technulogy developed by Dow Chemical, The "Unipol" process is turn-

Continuad on Pags 17

Fatty Acid Venture

Cyanolech Corporation, Woodinville. Wash, plans to devetop an atgal EPA (eicosapentaenoic ocld) product on behalf of a "major pharmaceulical company," which would have marketing rights to the

Cyanotech says it cannot identify the pliarmaceutical company until s development contract is signed, probably by the end of this month.

An algal source for DHA (decosshexaenoic ocid) will also be developed, under the plan ninounced last week by Cyan-

The company will grant exclusive marketing rights to the pharmaceutical firm in return for financing of product develop-

Both EPA and DHA are omega-3 fatty aclds, considered to be effective in lowerheart disease. Heart disease is the number

Disappearance of fertilizer products

into domestic markets was 4 percent

less in August 1988 than in August 1985,

For the July through August comparison,

however, disappearance was about even with

In the yearly comparisons, disappearance

of nitrogen products increased 2 percent,

phosphates increased 7 percent, and potash

products declined t4 percent, according to

less overall than in 1885, with decreases in ali

product groups. Potasb production declined

the teast, recording a I percent oegative

Ending inventories increased 1 percent at

the end of August 1988, including larger inventores of nitrogen and phosphate, and smaller stocks of potash products. Potssh

Inventory decreased 18 percent in the US.

Fertilizar exports wara 5 percant greater

for the July-August total, compared with 1985. Tonnage improvements came in am-monium sulfate, phosphoric acid, concan trated superphosphate, and potash products.

Phosphate axports were considerably Im-

st year, recording a 1 percent decline.

according to Fertillzer Institute.

the tnatitute.

changa.

Fertilizer Signals Mixed,

Industry Data Indicate

developed countries.

According to Cyanotech, olgal sources for EPA and DHA have distinct advantages over fish oil sources. Unlike fish oil the signi sources are free of cholesterol.

EPA and DHA occur free of closely reisted fotty acids in Cysnotech's algain sources, the company says. The algal sources also contain other beneficial nutrients, including proteins, vitamins (beta carotene, blotin and vitamin B-12) and

Supply of fish oil ts vartoble, with severe competition for the product from the most desired species," notes Cyan-oiech. The compooy claims that with its "state-of-the-art technology for largescale production of microaigae, a steady and reliable supply can be maint ained and ing blood cholesterol and preventing expanded quickly to meet increasing de-

cent more in July-August 1886 than in the

same period of isst year. Nitrogen products,

primsrily solld urea from the USSR, ac-

Domestic disappearance of solid urea in-creased 88 percent in August 1986, compared with 1985. Disappearance of ammonium sul-

fste tncreased 33 percent, and ammonlum

nitrata solids increased 14 percent in the

ssme comparison. Anhydrous ammonia dis-

appearance was 10 percent less than in tha

oversil. An increase of 35 percent in urea

production offset declines in other products,

In solutions and 10 percent in ammonium

cluding 13 percent in ammonia, 28 percent

Ending inventories of nitrogan wera

mixed, with a total increase of 3 percent in

product tons. Anhydrous ammonia increased

cent greater; while solid ammonium nitrate

proved over last month, but still lagged the

levsls of last year, according to the industry

percent and nitrogan solutiona wer a 3 per-

Fertilizer production also was mixed rela-

to August 1865, with a 8 percent decline

counted for tha Incraase.

nitrate, TFI says.

Consequently, AER expects slockpile Continued on Page 29

Vista Polymers **Expands Plant** For PVC Resins

The continued drawdown and even-

tual depletion of Canadlan sulfur atocks

ls expected to ceuse a rapid increase ln

sulfur prices within the next one to two

years. How the disappearance of thia In-

ventory from the world market will be

accommodated is a subject of much

A one-day conference, "Canadian Sulphur

and tile World Market" being hetd this week

tn Calgary, Alberta, will address the draw-

down's sffect on Cansda's world market po-

Most observers feet the continued Cana-

dtan drawdown ia tnevltable, though there ts

some question as to when auffur stockpiles

with be lotally depleted. Agrichemicals Eco-

nomic Research, a Vancouver-based consult-

ing firm, expects total stock depletion by the

end of 1888 at the latest. The firm has just

recently updated a multi-client study of the

Sulfur stockpiles are currently considered

to be about 8 millton metric tons by most in

the industry, AER believes, however, that the

lignre is considerably overstimated, further-

more, over one million tons of stockpite is not

directly saleable, being considered

"basepad," or impure, material, requiring

some degree of filtering or cleaning of dirt

and other contaminants. AER feels actual

stocks of clean suifur are just over 5.5 million

The company further estimates that Cana-

dian production will remain relatively stable

for the next few years at about 5.2 million

tons. Demand, however, is expected to vary

from 7.3 to 7.9 million tons per year through 1988, from overseas, US and Canadian con-

speculation.

VIsta Polymers Division of Vista Chemical Company says it has completed e major modernization and expansion of its bulk compounding facilitles which will allow it to expand its product slate to meet rising customer

Two of three compounding lines at the company's Aberdeen, Miss., PVC Plant were renovated over the past seven months, according to Rick Fianmer, vice-president for polymers. As a resutt, Vista's bulk cominding capacity has increased to 80 mliion pounds a year from 70 millton.

"This project will improve tha reliabitly of our bulk compounding facilities, reduce maintenance downtime and increase operational safety," Mr. Flammar says. "It gives us additional ftexibility to manufacture high quality multipolymer blends, consistent with our long-term strategy."

The decision to modaroize and expand Vista Polymars' bulk compounding facilities waa based on projections of increased demand for the company's PVC compounds, Mr. Flammer explains,

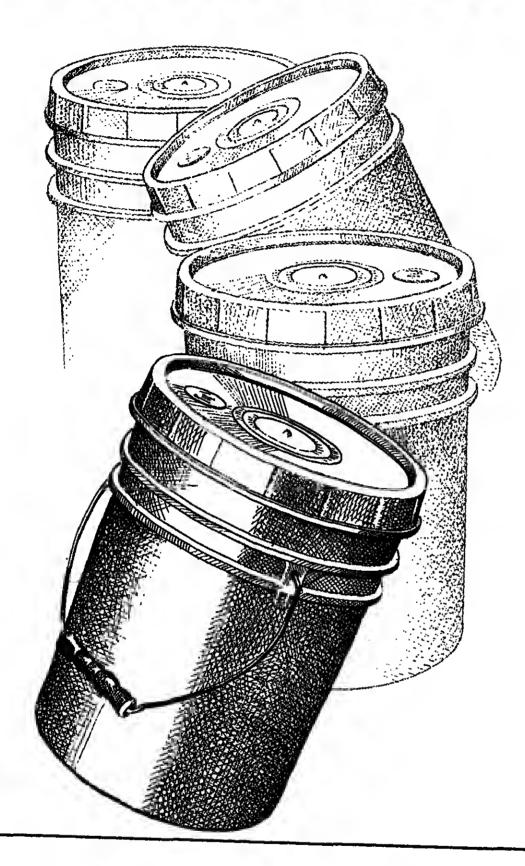
According to Mr. Fiammer, "Vista Polymers will continue to grow at a rate higher than the industry average because of our expanded markating outlats end improved product linas." Vista says it to the only US producer of flaxible PVC compound which is integrated from ethylens to VCM and PVC, as well as in linear alcohols and plasticizers.

In addition to the Aberdaen expansion, Vista recently started up a new division, Premiere Polymers, with compounding opera-tions et Jeffarsontown, Ky. This facility concentrates on high performance, low-volume PVC compounds and alloys where exect color matching is a critical factor.

imports from all sources totalled 14 per-Continued on Page 16

CHEMICAL MARKETING REPORTER

OUR BEST FEATURE IS BEING DROPPED.

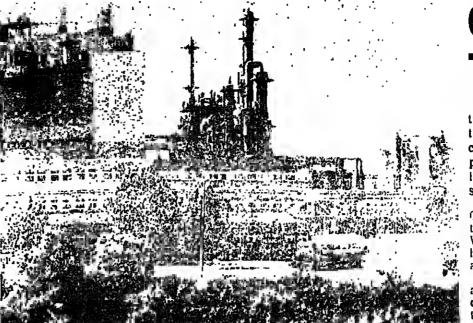


We drop-test our open heads every day-from every machine, every shift. So we're certain the covers won't come off when you ship them. The 360° continuous locking lips of the body and cover make sure of that. What's more, our high-density polyethylene

pails meet the regulations (UFC & NMFC) for compression and vibration.

So if you want a pail that can take being dropped, drop us a line. Rheem Manufacturing Company, 1701 W. Edgar Road, Linden, New Jersey 07036.

RHEEM MANUFACTURING COMPANY/CONTAINER DIVISION



Acetal Copolymer Plant On Way in Alabama

Friday at Theodore Ala. The Ultraform BASF Corporation and Degussa Corpo- ter.

The plant, being built at Degussa's ager of the Ultraform Company, has been in Theodore, Ala., site, will have an initial cais based on an integrated process in which wigshaven, sitc. trioxane serves as the principal nunomer.

Trioxane capacity will be 40 million pounds a Bridgeport, N.J., will be the exclusive sales

Scheduled for completion in early 1968, the

Construction of a \$70 million plant investment at the Degussa site to \$300 miland related facilities to produce "Ultra- lion. Of this sum, about \$50 million were form" acetal copolymer was started last spent for environmental controls, including a modern biological treatment system using Company is a fifty-fifty joint venture of by Dr. Wolverton of the NASA Research Cen-Dr. Manfred Goettsch, who is general man-

pacity for the Ultraform engineering poly- wigshafen, Germany. An Ultraform plant mer of 24 million pounds a year. Production has been operating since 1971 at the Lud-

agent for product supplied from Theodore.

Aceial copolymer finds applications in aupisnts will add approximately 100 jobs to like tomotive, plumbing and hardware, elec-Degussa production complex. At the height of tromechanical and several consumer prodconstruction activity, contractors are ex- ucis. Polyacetal consumption in North pected to have as many as 250 workers on America lotals about 160 million pounds per site. The Ultraform plant brings the tolal year.

Mobay RIM Chemistry Seen Widening US Sales

molding process, will be used on about 2 million US-made cars in 1987, or nearly three times this year's total, according to Mobay, a resin producer.

in 1986, approximately 700,000 vehicles are being made with modular windows by the reaction injection molding (RIM) system. In 1985, the first year of production, more than 200,000 cars used the streamlined windows.

Researchers currently are at work refining new weather-resistant (WR) chemistry used to produce modular windows that sre less expensive to make without loss of prop-

FURTHER ADVANCE

This was the report delivered at a technical conference in Toronto last week in a paper co-authored by Gregory H. Slocum, Thomas N. Thompson and Charles E. Fluharty, of the Polyurethane Division, Mohay Corporation, Pittsburgh, Pa.

Dr. Slocum, project leader in the company's automotive RIM section, presented the paper at the 30th annual technical and marketing conference of the Polyurethane Division, Society of the Plastics Industry, of New York

New WR chemiatry la making it possible to provide automotive window gaskats by the RIM process that remain strong, glossy and colorfast over long periods of time and through repeated car washings and polishings, Dr. Slocum claims.

Ha described the new process that will fur-The state of the same and the s

Polyurchane-encapsulated automo-bile windowa, produced by a one-step one-step RiM encapsulation of automotive windows. In the RiM process, the flexible polyurcthone gasket, the required metal fasteners, tracks for sliding windows and deco-rative trim, are all RiM-molded around the piece of glass, in one operation, in a low-pres-aure, low-temperature mold.

The conventional method of protecting urethane window trim from the effects of weather is by applying an in-mold coaling, or by painting them after release from the mold, which is called post-painting. "Aithough these atepa are production-viable at present," Dr. Slocum sald, "ellminstion of these stepa will obviously reduce production costs, further enhancing the advantages of RIM encapsulated windows.

Since auto window gaskating is black, the goal has been to davelop a pigmented gas of that color by the RIM system, without in-mold coating or post-painting. The unit would maintain its color on outdoor exposure and during repeated car washings and polish-

New WR formulations involve a Mobay weather-stabilized polyurathane aystem that involves both an aromatic isocyanata and aromatlo chaln axtender.

Photomlorographs of various test surfaces made by this WR chemistry showed that the samples withstood 9 months of Florida washering and retained their glossy black finish after washing and polishing.

Chemical Group Told To Focus on Trade

The upcoming round of multilateral remarked Mr. Lang said non-tariff issues trade negotiations in Uruguay could be profitability, growth and even its longlerm viability for many years to come,

says a leading industry spokesman. Ronald A. Lang, president of the Synthetic Organic Chemical Manufacturers Association, told a group of industry executives in Washington last week that the US must take a hard line in the new trade talks and guard against repealing the mistakes of the past.

The talks provide an opportunity to turn ound our declining trade balance in chemicals but only if our negot lators recognize that the end result must be naw marketing opporinities abroad and agreements which eliminate unfoir import competition," he said, adding that "pragmatic economic self-interest" should be the corneratone of the US negotlating strategy.

Mr. Lang said lic believes the US should concentrate its efforts on finding ways to eliminate or reduce significant non-tariff barriers to trade, rother than on tariff cut-

Congress should give the President tarilf cutting authority, but limited authority, and even that should be used to negotiate on the basis of specific 'request' lists rather than broad formula reductions whose impact in actual trade terms is hard to measure," he

the most important ever held for the on access to foreign markets by mesns of chemical industry, possible affecting its | Import licensing schemes, restrictions of for-

Continued on Page 22



Burmah Oil Sets Its Sights On Specialties Business

has set its sights on developing a \$600 million specialty chemicals business world-wide by 1992, and last week it took one small step in that direction.

It bought Perolin/IWC, a Chattanooga, Tenn., company which produces boiler waste, waste water and cooling treatment chemicals along with process additives. Perolin/IWC, whose annual sales total around \$6.5 million, strengthens Burmah's US pres-

ence in the water treatment field. In a CMR interview, Lawrence Urquhart, Burmalı Oil's managing director, indicated thal a four-fold growth in the company's global specialty chemicala business will be powered by six major thrusts in that aector: waxea, adhesives, water treatment, sealants.

printing inks and specialty coatings. World-wide, the company's specialty chemicals business today, excluding "Castrol" lubricants, runs to \$165 million annually, with the US accounting for about \$70

Burmah Oil Pic. of Swindon, England, million. Burmah's US specialty sales break down this way: woxes, \$25 million; adhesives, \$25 million, and water treatment (including Perolin/iWC), \$20 million. Burmah also supplles around \$200 million of "Castrol" lubes yearly to the US market. Outside the US, it sells sealants (\$50 million) and printing lnks (\$45 million).

Burmalı Oil has been on a small acquisition spree in the US during the past year. Last October, it acquired Yates Manufacturing Company of Chicago, a manufacturer of wax blends. This past February, il bought the water management division of Clow Corpora tion, Pontlac, Mich., and made it the core of Burmah Technical Services, Inc., a division of Burmah Specialty Chemicals. Perolin/ IWC has been incorporated within Burmah Technical Services.

in June, it purchased National Wax Company of Skokie, Ill., a producer of hot-melt coatings and petroleum waxes, and, last month, it acquired Columbia Cement Com-Continued on Page 18

R&H Pesticide Hit By EPA Restriction

Environmental Protection Agency who handle the substance, and placing health warnings on product labels. About 500,000 proposed restrictions on the use of the apple pesticide dinocap last week, citing bealth and safety risks to workers who apply the product.

commonly known by the trade names "Karathane" and "Dikar" and used primarlly to control mlidew on apples, is a cause of birlh defects in rabbits, EPA said.

The agency sald the only risk comes from exposure to dinocap during the mixing and application process — not from eating foods treated with the chemical or from low con-

pounds of dinocap is used each year in the US, 92 percent of which is used to control pow-

dery mildew and fight mites on apples.

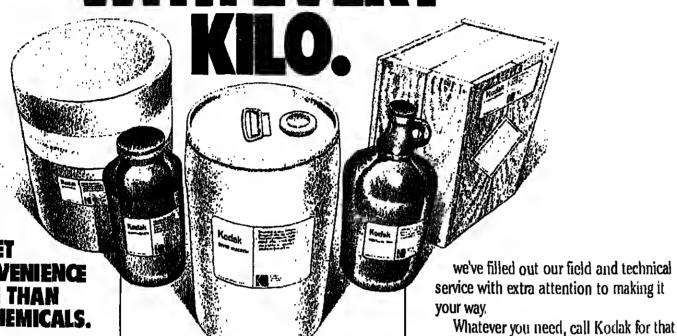
Rohm and Haas Company, the sole US dinocap producer, saya its test data do not supporl EPA's concern that skin exposure to dinocap may cause hirth defects.

But a company spokesman says Rohm and Haas will continue to work with EPA in assessing the possible hazards of dinocap, and notes that most of tha agency's recommended procedures for safe handling are siready euggested on the product's label.

eentrations of dinocap in products designed apecifically for home use.

The agancy's proposal would include restricting use of the chemical to certified spulled to the agency. Current dinocap prosion, requiring protective clothing for those

A LOT OF KODAK WITH EVERY



YOU GET CATALOG CONVENIENCE WITH MORE THAN 3,800 BULK CHEMICALS.

If you see a product in the catalog, it means we have larger bulk quantities in

stock for prompt delivery.* Our chemicals are in the Kodak tradition of fine. dependable quality. You have our word right on the Certificate of Analysis.

YOU GET EXCLUSIVE EXPERIENCE WITH OVER 100 YEARS IN FINE CHEMICALS.

You can start with us and stay with us because we're committed to your business. And we grow with you as you scale up to tank car fulls. Today we offer you specialized analytical, environmental, toxological and regulatory support capabilities to meet all your requirements and serve you better

Bulk raies lower than catalog prices.

YOU GET CUSTOM COMPOUNDS WITH A BACK-UP BANK OF OVER 300,000.

Our commitment to research and development has produced a bank of over 300,000 com-

pounds we can draw on to meet your extra special needs for custom

synthesis. We invite you to explore that experience—with complete confidentiality when you want it. Call us and find out if we already have what you're looking for.

YOU GET DYNAMIC DIALOG WITH A TEAM TO MAKE IT YOUR WAY.

When you call to discuss custom synthesis, we put you in touch with chemists and other professionals who speak your language. They provide consultation and fast, personal attention to your finest details. What's more.

Carte Catherine in the Control of th

News Capsules

Merck Receives Approval

Merck & Co. says it has received regula-tory approval to market "Pepcid" (famo-tidine MSD), a new once-a-day prescrip-tion medication for the treatment of duodenal vicers. Merck expects to make the product generally available for pre-scription use by mid-November.

Angus Acquires Shares

Angua Chemicai Company has acquired the remaining shares (10 percent) in An-gus Fine Chemicals Ltd. formerly held by Isochem SA, Gennevillers, France. The purchase "atrengthens our strategic posi-tion to diversify into pharmaceutical in-termediates and reinforces our commit-ment to high-growth segments of the chemical industry," Angus says.

Toyo Soda Slates Plant

Toyo Soda USA, Atianta, plans to start production in January of "Susteel" polyphenylene sulfide compounds in the US. The company says it will be competing with Phillips 68 and Kureha/Celanese. Sample quantities of the Toyo compounds are available from the company's joint venture facility in Japan.

Florasynth Acquires

Fiorasynth Inc. has acquired Fabrique de Produits Chimiquaa Organiques de Laire. The French firm will operate as a aeparateunit of Fiorasynth under existing mangement, headed by Robert de Laire.

Warner-Lambert Sues

Warner-Lambert Company, Morris Plains, N.J., has filed suit in US District Courl for the Northern District of Illinois against My-K Laboratorles, Inc., Skokie ill, alleging unfair competition by imitat-ing the trade dress of Warner-Lambert's Benylin" cough syrup.

Monsanto Has Gain

Monsanto Company, St. Louis, Mo., will record an afler-tax gain of \$114 million, or \$1.46 per share, in the third quarter from the sale of its Texas City, Tex., petrochemical plant and related assets. The facility was sold in August to Sterling Chemicals Incorporated, which was formed for the purpose by Sterling Group Inc., a Houston-based investment firm. The Texas City plant's producis, include scrylonitrile, methanol (methyl alcohol) and slyrene.

Dow Auto Activity

Dow Auto Activity

Dow Chemical Company is jaunching an integrated effort to bring all its automotive resources to the problems and problem solvers in Detroit ond elsewhere. To that end, the company has created the new position of vice-prealdent of automotive materials. R.J. Dolinski has been named to fill the position. His office and organization will be in Detroit. Hunter W. Henry, president of Dow Chemical USA says that sithough Mr. Dolinski's organization will serva the US auto industry, he will also coordinate automotive activities with Dow units in Europe, Canada, South America and Japan.

Nitrogen System

Membrane systems that generata nitrogen on-site for as little as a tenth the price of merchant nitrogan hava been commercialized by Monsanto's Permea Inc., the compacy says. These nitrogen systems, branded "Prism Aipha," use hollow-fiber membranes to separate air into a nitrogen stream and an oxygen-rich stream. Permea claims the systems are up to four time. mea claims the systems are up to four times more efficient than previous membrane hered brane-based nitrogen systems, and this efficiency translates into nitrogen at lower cost than conventional marchar

Monsanto Adhesives Unit

Monsanto Adhesives Unit

Monsanto Chemicai Company's Resins
Division last week announced the successful demonstration of its new adbesives
pilot coater at the company's Indian Orchard pismt in Springfield, Mass. With a'
capsbility of line serve a language from 10
to 10 feet per minutes, the 13-inch wide
coater can employ three-role reverse and
Mayer rod techniques to coat and prepare
laminates of acrylic water-based pressure sensitive adhesives.



USX Spins Off Chemical Division; Stock Sale and LBO

USX Corporation is following through on its intention slated two weeks ago to divest its chemical division with a plan that combines a stock sale to the public and a leveraged buyout.

The diversified producer of steel and petroleum products said in a Securities & Exchange Commission filing that it would transfer the assets of its chemical division into a new company to be called Aristech Chemical Corporation. About 72 percent of the shares in Aristech will be sold to the public, and about 28 percent will be held by Aristech, presumably to be available to the

Arislech's shares, to be sold by a group neaded by Sincarson Lehman Brothers and Goldman, Sachs & Co. will cost between \$17 and \$20 each and will be listed on the New

York Stock Exchange.

If an initial market price of \$17 prevails, the number of shares that USX will receive is 31.3 million. USX will offer 22.5 million of these to the public and the remainder, 8.8 million, will be sold to Aristech for \$150 mil-

Aristech pians to pay for these shares through proceeds from \$200 milion in debt, Continued on Page 16

IMC, Cyanamid **Complete Deal On Phos Rock**

International Minerals & Chemical Corporation (IMC) and American Cyanamid Company announced last week that they have completed the transfer of the operations of the Brewster Phosphates' phosphate rock processing plants in central Florida to IMC.

IMC also acquired the rights to Brewster's

Lonesome and Haynesworth phosphate rock Brewster Phosphates is a partnership of American Cyanamid and Kerr-McGee, with

American Cyanamia and Aerr-McCee, with Cyanamid the majority partner.

The transaction completes Cyanamid's withdrawal from the phosphate fertilizer business. The company earlier had discontinued the sale of diammonium phosphate following the termination on June 30 of long-

term production contracts. Cyanamid has restructured its businesses to concentrate on high technology, research-based products in the medical, agricultural, chemical and consumer, businesses.

IMC. based in Northbrook, Illinois, is among the world's largest producers of nutri-ents for crops and products for animal agri-

GAF Not Planning Buyback of Shares

GAF Corporation, the Wayne, N.J.based producer of specialty chemicals and roofing materials which recently falled in a bold attempt to acquire Union Carbide Corporation, expects to continue its rapid growth record in chemicals and building products, supplemented by small acquisitions in the chemical field.

Samuel J. Heyman, who ousted Dr. Jesse Werner from control of GAF early in this decade in a bitter proxy fight, and then pruned the company for high profitability, said that the company had a "disciplined acquisition strategy" that would emphasize value-added products and would be oriented to the benefit of shareholders. One stockholder benefit that Mr. Heyman

and his colleagues ruicd out for the present time is tha repurchase of shares, a program that has been adopted in a large way by Celanese Corporation, Union Carbide and a number of other leading chemicol compa-

Peter E. Butier, chemical analyst with PaineWebber Corporation, pointedly asked Mr. Heyman why he would not negotiate for the repurchase of some 3.5 million shares which a single stockholder has been trying to

These shares are overhanging the market

and depressing the company's share price, the analyst said. Mr. Heyman, who had al-rcady said that the company could find "more creative outleta than share buybacks for tts financial resources," replied, jokingly, that he was just as stubborn as Mr. Butler and had no present intention to negotiate for the repurchase of these shares.

Mr. Heyman, however, made his continued stubborness conditional upon the availability of other outlets for investment, specifically the availability of suitable acquisitions.

Although many chemical divisions have been changing hands, the availability of compiete specialty chemical companies with good product lines at affordable prices is not very great. Edward L. Hennessy, Jr., chairman of Allied Chemical Corporation, spent several years fruitiessly seeking such an acquisition, while successfully acquiring a number of electronic and high-technology businesses, culminating in the merger with Signal Companics, of La Jolia, Calif.

Cari Eckhart, president of GAF's chemical company, noted that chemical profits have been climbing 20 percent per year from \$54 million in 1982 to \$92.6 million iast year. The return on sales has climbed, in the same perlod, from 19 percent to 25 percent, Earnings in the third period, Mr. Eckhart said, will

Continuad on Page 30

McKesson Deal Okayed

approval from the Justice Department and the Federal Trade Commission to pro-

At the close of the tronsaction, Univar wili be more than doubled in size, with more than 2,500 employees, over 100 facilitles astionwide, and with the anticipated annual sales of more than \$1 billion.

Univar distributes chemicals in the US through its Van Waters & Rogers division. A subsidiary, Van Waters & Rogers Ltd., distributes chemicals in Canada. The effective on the date of closing.

tion that will complement our existing domestic chemical distribution oneraceed in its aquisition of McKesson Chemical Co. The transaction, which is planned to close October 31, will make Univar the will be improving our geographic coverage, with the addition of nearly 60 facilities and will be adding more than 1,000 tles, and will be adding more than 1,000 people to our work force.

"By combining the experience of these new employees with that of the current Van Waters & Rogers employeea throughout the US, we will be betier able to fulfill the needs of our customer's and suppliers." Mr. Bernard said.

Univar's total sales for its fiscal year ended February 28, 1986 were \$538 mil-McKesson Chemical Co. operations will lion. McKesson Chemical Co. sales for the be combined with Van Waters & Rogers year ended March 31, 1986 were \$604 million.

Hercules' Income Up 94 Pct., While Dow's Increases by 60 Pct.

of three big chemical companies head-quartered in Wilmington, Del., had by a wide margin the largest earnings gain in the first round of quarterly results released last week. Hercules' net income nearly doubled from the level of a year ago, while Dow Chemical Company had a gain of about 60 percent.

Among others in the industry reporting good results were Ethyl Corporation, Scho ring-Plough Corporation, Pfizer Inc., Merck & Co. and Warner-Lambert Company. Morton-Thickol Company had a small decline from last year's level.

Hercules' net income totaled \$64.8 million. versus \$33.3 million a year ago on a small increase in sales to \$638.7 million from \$613.8 million.

Alexander F. Giacco, chairman, president and chief executive officer, noted particularly strong results in Simmonds Precision Products, water-soluble polymers, fragrance and food ingredients and paper chemicals, as well as the Himont polypropylene joint venture with Montedison SpA, of Italy. full year, Hercules expects to report record

Hercules Incorporated, third largest ilon and sales reached \$2.787 billion, versus \$2.873 blillon laat year.

Worldwide physical volume was up 6 percent. observed Robert M. Kell, executive vice-president. Ail of Dow's business segments recorded improved operating income, be noted. The commodity chemical area had better profitability as supply/demand balances improved. Ethyi Corporation's net income of

\$48,838,000 in the third quarter was up 34 percent from a year age and it established a new quarterly record. Floyd D. Gottwald, Jr., chairman of the board, cited significant lmprovement in operating income of antiknocks and other petroleum additives. Nonpetroleum chemical products reported strong gains, while plastics aluminum and energy continued behind year-ago levels, Mr. Gottwald said. First Colony Life Insurance had income about equal to that of a year ago, he noted.

Schering-Plough's third-quarter net in-come increased 42 percent to \$62.3 million, while sales were up 19 percent to \$600.6 mililoo. Results are comparable to those of a year ago since 1985 figures have been restated to reflact the merger with Key Phar-

earnings, Mr. Giacco stated.

Dow Chemical Company reported its

strongest third quarter since 1959, as net income climbed to \$187 million from \$107 mil.

Continued on Page 19.

Crimbol Al. MARKETING Report For the continued on Page 19.

C Eastman Kodak Company 100

something extra in fine chemicals. We

YOU GET

A FREE KILO BUYER'S

CATALOG.

want to do business with you.

Call 1-800-225-5352 (in

New York State, I 716-458 4014)

functional group.

, 101.145

for your free Kilo Buyer's Catalog,

complete with ordering information,

bulk quotation request card, and a fine

chemicals listing by molecular formula and

Call 716-458-7951 for information on

our competitive quoting and sampling proce-

dures. Or call to have a Kodak representative

Eastman Kodak Company, Laboratory

Kodak

LABORATORY AND

RESEARCH PRODUCTS DIVISION

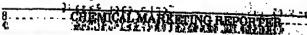
EASTMAN KODAK COMPANY

ROCHESTER, NY 14650

visit and discuss fine chemicals with you.

343 State Street, Rochester, N.Y. 14650.

and Research Products Division.



OILS, FATS & WAXES

cover any sales they might make, sources

A government program eailing for a reduction in acres of cotton planted, coupled with an execss of wet weather in west Texas. has served to cut back on this year's expected output. "Last year we ran milis into July and August; this year, we will be going only into June, and more like Morch and April for smaller producers," says an industry source.

Although buying demand is expected to be at least average in the coming year, the rate of crushing will be down because of competition for the cottonseed with dairy farmers. "Cattle feed people are buying the whole cot-tonseed at too high s price for us to compete; it remains highly doubtful how much af this crop will be crushed," aavs a producer.

firmed appreciably, rising steadily throughout last week to its present lavel. A considerable amount of buying was done last week, apps rently spurred by the weak position that the price had failen to.

Contributing to the strengthening in the market is the fact that the peanut harvest is very late this year. "We're usually done by now," says an industry source, "but as it is, we'll be harvesting weil into November."
This is due to late planting and dry weather onditions this year, he says.

Most of the buying that has been taking place has been by consumers, rather than dealers, sources say. "People who'd been walting for peanut oil came in and bought, pretty much all at once," says an industry

Sources are not expecting a very great amount of peanut oil this year. Preilminary estimates show only a small amount of oilgrade segregation three peanuts, meaning rop will be crushed," savs a producer.

PEANUT OIL — The price of this oil has a wider market for peanuts, sources say.

Reagan Signs Continued from Page 3

included in the measure. But the President came under incressing congressional and po-ittical pressure to sign the bill last week, and, a White House official on Friday said top advisers were starting to "ease off" the veto

"We're weakening our veto threat," the official said. He said President Reagan is The Doie letter, designed to provide Present Action 12 to 12 to 12 to 13 to 14 to 15 "strongly committed" to the superfund program and is "aware of what trouble we'd be to if toxic waste cleaoup was atopped. That's istic compromise that will win the support of always been part of the equation.

Democrats, fearful that President Reagan would pocket veto the blii If Congress adjourned, vowed to keep Congress in session through Tuesday, forcing the President to either aign or veto the bill.

Senate Democratic leader Robert Byrd (W. Va.), ssked House Democratic leader Jim Wright, Tax., not to pass an adjournment res-

olution until Tuesday, ond House Speaker thomas O'Neill (D-Mass.), aaked if the House would stay to attempt a veto ovarride. At the snme time, Senate Republican icoder Robert Dole, Kan., gathered signatures on n letter pledging that Congress would not, if President Reagan signed to bill, approve new taxes next year for superfund or divert taxes in the built o other pro-**AROMATIC ORGANICS**

Congress now, or in the foreseeable future."

opposition to a new broad-based corporate tax, but added "We believe atrongly in

there is no other workable formula lor resp

better agreement next year as judged by the

polley concerns you have expressed, the let-

ter said. "We do wish to assure you bowers.

that we will oppose any future efforts to raise the level or the rata of the broad-based tax...and we will also oppose any effort is

spend revenues from that tax on any other

"We at and prepared to support your velocity any bill that would either increase the broad-

based tax or apply it to purposes other than

gram, which ended up struggling this year

under emergency funding measures, would have been shut down completely by the end of

The superfund bill passed both the Semit and the House with better than the two-thirts

margin needed to override a veto. Despitetiv

administration's objections, Congress void to finance the program with \$4.15 billion taxes on the chemical and oil industries, \$25 billion from a broad-based corporate tax, and

\$1.85 billion from general revenues, interes

The White House had threat ened to velo the

biil on the basis of the broad-based tax-

aimed at corporations with taxable income

above \$2 mlillon—and the oil tax had also me

The chemical industry supported he id despite the substantially higher taxes it will be required to pay. In addition to the ill

billion feedstock tax, the industry will payti

percent of the petroleum tax—or \$550 ml-lion—and \$250 million of the broad-base

Overali, the chemical industry will pay it billion more than it did during superfusion

first five years.

Sen. Doie, anxious to adjourn and gets

decision on the superfund blil, circulated:

letter Thursday that pledged co-signer would fight ony attempt next year to raise

additional taxes for the superfund program or divert revenues in the bill to other

projects.
"I believe if we could deliver a leiter tother of state of the could be seen aumber of state of the could be see

President with a pretty good number of structures, that would give him encouragement to sign the bill," Sen. Dole said.

EPA Administrator Lee Thomas said is

was pleased the President had algoed the ill

"Ha decision was not an easy one," and
Mr. Thomas. "The President has wasted in
maintain a strong and offective cleanup if
fort, one financed largely by the poliulation.

themselves. Yet the final compromise passed by Congress includes a new broadbased is that does not reflect the polluter pays prior

Rep. Norman Lant (R-NY), one of the lat-makers who struggled for three years to in-prove the cleanup program declared, "This is a great victory for us who want sensible late.

Rap. Lent sald that had the President ? toed the superfund bill, Congress was read

sponalble funding approach to the cleanup abandonad leaking hazardous wase, site Enactment of this lagislation is warranted it will approach to the cleanup of the cleanup

Union Carbide president and c tive officer Robert D. Kennedy praised Preldent Reagan for signing the superfund re thorization legislation and comment "Congress has developed an equitable,"

to ovarrida tha veto.

and cost recoveries from companies.

Without the extension, the superfund pro-

program than superfund.

superfund," the letter said.

"There is no reason to believe we will gell

thorlzing the superfund program."

The letter agreed with President Reagan's

Styrene Makers Initiate November Price Increase

Styrene producers say that the industry-wide 2-to-3-cent-per-pound price in-cresse that went into effect October 1 has met with considerable success. Some producers have announced further increases for November 1.

The October price change, in combination with a similar industry-wide initiative that went into effect September 1, has resulted in a 4-ceot-to-6-cent-per-pound increase in sell-ing price levels since August, producers say. Choiract pricing is quoted in a ranga of 22 cents to 24 cents per pound, and the spot market for exports is quoted at 21 cents per

pound.

When the price increases were implemented firm feedatock benzene pricing was said to be a contributing cause, and ateady beozene price levela in recent weeks are seen as providing apport for the higher price lev-

Producers say the primary reason for their auccess lo raising prices has been market tighiness created by strong demand for major end market polyslyrene, and a considerable amount of downtime being taken in the

SUPPLY OUTAGES

"Generally speaklog, the industry is very tight,"comments one producer, who has been moving some product to others in need of msterial. The market "could stay snug for the balance of the year," he says.

Much of the industry'a attention is focused

on supply outages, most notably the one at Chevron Corporatioo'a 625-million-poundper-yesrSt James, La., plant. With the unancipated downtime in the industry, suppliers are very hard-pressed to meet demand," and Inventories are low, says a producer.

Chevron's plant went down early in the mooth due to a beat exchanger problem. Following thar epair, an effort to restart the unit was aborted due to blockage in a distillation column. The company now expects to resume operation early this week. A normal maintenance lurnaround is scheduled for next quar-

Among the other units taking downtime recently was the 900-million-pound-per-year part of the Coamar Company facility in Carville, La., that is jointly owned by Borg-Warner Corporation and Cosden Chemical. The plant was shut unexpectedly for eight days in September due to a mechanical prob-

A 500-million-pound-per-year unit at the same site, originally scheduled for a November turnaround, is slated for a three-week turnaround in February. The company plons to give the larger unit a turnoround in Moy. El Paso Products Company's 320-million-pound-per-year plant took a routine 10-doy turnaround division for the contraction of the contraction.

turnsround during September, and Dow Chemical USA's 1300-million-pound-poryear facility has just begun a three-week turnarouod. Dow asys it had planned to take

the downtime earlier in the month, but held off due to the condition of the market. Sterling Chemicals says it has postponed a

turnaround at its 1500-mlillon-pound-peryear plant from October to February. Indussources say Amoco Chemical Company will be taking some downtime in March.

Producera raising selling prices November 1 include Cosden, which is removing a 3-cent-per-pound temporary voluntary al-

PRICES TRENDLINES

in this aector and the quantity of each

procuoca mi rocc.	
Oct. 17, 1986	187.84
Oct. 10, 1988	187.84
Sapt. 19, 1888	167.84
Oct. 18, 1985	

Chemical Prices Start on Page 38

In assessing styrene demand, producers note that the growth rate for polystyrene, which accounts for 55 percent of styrene consumption, is pegged at about 8 percent this

Acrylonitrlie-butadiene-styrene, which takes 9 percent of the market, and styrenebutadiene latex, which takes 6 percent, ore both said to be growing at a healthy rate this year. Styrene-butadiene rubber, a 7 percent end market, is one area that ia seen as stag-

Although producers say that export ship-ments ore moving at a fairly healthy clip,

Sitell Canada, in particular, has been ar active force in the US market, producera say. "They have been aelling more (to the US) than they not been setting more cto the control that they or the industry expected, comments one producer. "We thought they would be selling primarily to the Pacific Rim, but the price is more attractive here."

BTX — The apot benzene market was quoted between 83c. and 84c. par gallon last Continued on Page 15

WEEK ENDING OCT. 17, 1986

CHANGES/UP

CHANGES/DOWN

AROMATICS INDEX

The Arometic Organics Index reflects the prices of 14 representative materials

produced in 18	305.
Oct. 17, 1986	
	3

lowance from its 27-cent-per-pound posting, and Chevron, which is eliminating all allowances from ita 27-cents-per-pound price.

they acknowledge that ovorseas demand has tailed off during the second half of this year.
Part of this decilne is attributed to the strong US damand and higher US price, which have also enhanced the attractiveness of tha US morket to foreign producers.

AROMATIC ORGANIC EXPORTS: AUGUST

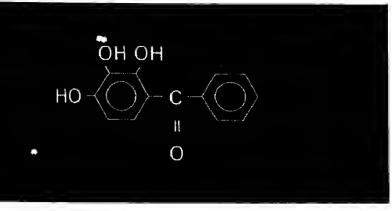
BUREAU OF CENSUS FIGURES IN POUNDS ON THE KEY AROMATICS.

		nu.	acce,		
ſ	Allert	QUANTITY	\$ VALUE	QUANTITY	\$ VALUE
	Alkylbenzenes, higher	1.023,126	1.818.329	630,386	792,566
-	Benzene, pure	1,294,371	1,234,868	548,150	660,063
	Bisphenol A. gal.	8.388,086	4,281,442	6,892,638	8,912,619
ŀ .	Coalter plich of	8,760,960	780,370	28,139,693	4, 130,868
	Cresylic Acid b.		1.201.771	200,090	239,480
	Cumene lb.	878,878		6,634,467	620,689
	Cyclonavana IO.	44,076,727	6,350,197	23,381,877	3,369,538
P	Dichlorokana and Co.	15,177,862	1,987,578		1.627,280
l l	Dimethyl terephthalete	3,008,272	1,302,984	3,631,460	2,698,848
L.	Onderelle	2,217,681	698,544	18,238,100	
·	Oedecylbenzens ib.	28,905,124	6,074,699	6,153,981	1,972,866
·-	Sthylbenzene lb.	1,977,681	261,696	8,800,168	1,881,528
Ł	sophthalic sold	403,204	179,016	405,083	184,987
2 '.	Maleic anhydride	424,109	181,666	1,166,666	492,236
ł.	Naphthelene, ell grades b.	77,770	111,976	1,864,926	569,221
16	rnenol.		4,660,681	9,924,860	2,126,526
1.	Chillip and the second	19,965,168	564,282	891,286	61,760
		6,164,402	40 844 684	107,659,723	19,165,587
ÿ.	I DIVARA RANA	108,885,555	18,663,988	860,726	712,069
2,		5,118,163	3,642,772	11,165,711	
₽.	-Aviane	10,717,865	8,645,881	892,428	538,465
J.	L'AYIRAG	1,400,023	1,345,880		22,462,986
1 6	Cylena Cal.	16,393,498	22,147,824	18,466,935	
	001711301111111111111111111111111111111	2,606,099	2,264,581	1,806,220	1,400,011
	ylenegel.				
					4 44

*Hoechst High Chem

FOR ELECTRONIC CHEMICALS

2, 3, 4 - TRIHYDROXYBENZOPHENONE



from Société Française Hoechst

Société Françeise Hoechst Tour Roussel Hoechet Cedex 3 **92080 PARIS** LA DEFENSE/FRANCE TEL: (33-1) 47.67.43.06 TELEX: NHOEC A 620537F

For further information in the US pleans contect **American Hoechst Corporation**

Chemicale Department Route 202-206 North SOMERVILLE NEW JERSEY 08876 U.S.A. TEL: (201) 231-36-65

Hoschst 🔟

From Rhône-Poulenc: Styrene Oxide Oxide Phenyl Ethyl Alcohol CH2-CH2-OH

World Largest Supplier

Rhône-Poulenc Inc. Organic Chemicais Division
Monmouth Junction, New Jersey 08852. U.S.A
Tél.: (201) 297.01.00

Rhône-Poulenc Division Spécialités chlimiques
Cndex 29-82097 Pni/s-La Défense, Frence
Tél.: (1) 47.68.12.34

ORGANIC INTERMEDIATES FROM RHÔNE-POULENC.

We're proud to announce that

THE CONTRACTOR OF STREET STREET, STREE

henley + co.

has been appointed the exclusive distributor for the United States and Canada

PHENYLPROPANOLAMINE HYDROCHLORIDE USP

Manufactured by

MEXCEL chemical products

henley+co.
50 Chestnut Ridge Road

Montvele, New Jersey 07645 Telephone: (201) 307-0422 Toll-free: 1 (800) 635-3558

Brench offices in Atlanta · Chicago · Clevelend · Houston · Los Angeles · Philadelphia In Canada. Henley Chemicale Ltd. 420 Finchdene Squere Scarborough, Onterio M1X 1C2 Telephone: (418) 297-0988)

CHEMICAL MARKETING REPORTER

It will expand the current program without endangering, through overtaxation the compatitive position of US petrochemical for ducera," Mr. Kennedy at a ted.

October 20, 1986 CHEMICAL MARKETING REPORTER



INTERMEDIATES

Benzoic Acid Benzotrichloride **Benzoyl Chloride Benzyl Alcohol Benzyl Chloride** Benzylidene Acetone Meta-Nitrobenzaldehyde Ortho-Nitrobenzaldehyde CATALYSTS

Paramenthane Hydroperoxide (PMHP) Plnane Hydroperoxide (PHP) INHIBITORS

Potassium Benzoate Sodium Benzoate

European scientists have devoted thomselves to organic synthesis for deco des CdF Chimie, a leading producer of organic compounds, has the above line available from Europe, some from local U S stock

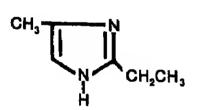
For sales service, please contact

Cdf Chimle North America, Inc.

1890 Palmar Avenua Larchmont, NY 10538

Tel: (914) 833-0311 lelex: 261570 CDFNA-UR

poly **ORGANIX**



2.ETHYL-4-METHYLIMIDAZOLE

- Manufactured in the U.S.A.
- Available in 5-gailon drums.
- Guaranteed to remain liquid.

Please call...the price will be to your ilking!

poly organix, inc. (503) 928-2628 commercial chemical department 1290 industrial way • p.o. box 803 albany, oregon u.s.e. 97321

CHEMICAL MARKETING REPORTER

October 20, 1988

Chemical Finance

Chevron to Acquire Huntington Beach

Chevron Corporation, San Francisco, and Huntington Bench Company, Huntington Beach, Calif., have agreed in principle to submit a merger proposat to the shareholders of Huntington. Chevron already holds about 66 percent of Huntington's common shares and would acquire the balance through a tax-free exchange of Clievron shares valued at \$780 each, Huntington Beach has real estate and mineral interests.

Conference Board Sees Two Years of Growth

The US economy will enjoy at least two more years of moderate economic growth. according to the Conference Board. The board's executive panel, which is surveyed twice a year, expects real economic activity to grow by an average rate of 2.7 percent in 1987 and 2.8 percent in 1988. Not a single member of the panel foresecs a recession either next year or in 1988, the board stated.

Swediow Cancels PPG Merger Agreement

Swedlow, Inc., Los Angeles, a manufacturer of windows and windshields for airplanes. has canceled an agreement to be acquired by PPG Industries, Inc., and has signed an agreement to merge with Pikington Brothers PLC, of England, a manufacturer of glass products, for about \$40.8 million. Federal Trade Commission has raised antitrust objections to the agreement with PPG.

Raytheon's Earnings Increase 6.5 Percent

Raytheon Company, a diversified manufacturer based in Lexington, Mass., raised its earnings 8.5 pecent and its earnings per common share 12.8 percent on a 9.8 percent increase in sales during the third quarter of 1988 from levels of a year earlier. Earnings were \$101.5 million, or \$1.31 per ahare, on sales of \$1.714 billion, versus \$95.3 million \$1.17 and \$1.584 billion a year ago.

Solvay's Earnings Up 20 Percent in Half

Net profits of the diversified Beigian chemical maker, Solvay & Co., totaled about \$129 million (4.857 billion Belgian francs) in the first half, an increase of more than 20 percent from the \$98 million earned in the same period a year earlier. Lower raw material prices were reflected in lower product prices, with the result that sales declined slightly to \$2.75 billion from about \$2.85 billion, although material volume increased. Consolidated cash flow amounted to \$283 million, versus approximately \$233 million the previous year.

PPG Completes Honeywell Acquisition

PPG Industries, Inc., has completed the previously announced acquisition of the domestic Medical Electronics Business of Honeyweii, Inc., based in Pleasantville, N.Y., and a majority interest in Honeywell'a similar business based at Best, in the Netherlands. The acquired operations produce patlent monitoring, diagnostic and therapeutic elecronics and related devices.

Procter & Gamble Has All-Time High Volume

Procter & Gamble Company, diversified consumer products company based in Cincinnati, Ohio, told shareholders at its annual meeting that unit volume in the third quarter set an all-time record for any quarter in the company's history. This is true even if the two years are made comparable by exclusion in 1988 of products of Richardson-Vicks and 3.D. Searle which were acquired in the latter part of last year, John G. Smale, chairman

Du Pont Gets Option on Electronics Firm

The Du Pont Company has purchased an option to acquire ETD Technology, Inc., of Shoreview, Minn., a systems supplier of specialty chemicals and control processes for the electroplating of printed wiring boards. Du Pont also acquired the right to see ETD was option period, ETD'a products and systems to fabricators outside the US. ETD was organized in 1981 by Economics Laboratory Inc., of St. Paui, Minn. Late in 1984, CaaChem Group, Inc., of Bayonne, N.J., acquired a controlling interest.

Henkel Acquiring Ford Motor's Parker Business

Henkel of America, a subaldiary of Henkel KGAA, of Duesseldorf, West Germaoy, has agreed to acquire Parker Chemical Company, a subsidiary of Ford Motor Company, for an undisclosed amount, aubject to regulatory clearance. Parker, headquartered in Madison Heights, Mich., manufactures and markets metal treatment products for the automotive, metal forming, coil coating and metal packaging industries, along with

iubricants and certs in adhesives.

Henkel KGAA is a multinational producer of consumer products and specialty chemicals with sales in excess of \$4 billion.

Cabot Selling Aluminum Master Alloy Business

Cabot Corporation, Boston, Mass., has agreed to aell its aiuminum master alloys business to Harbour Group, St. Louia, Mo.-based producer of synthetic fibers, medical producta, process equipment and cutting tools, for an undiaclosed amount. The aiuminum master alloys business is one of several operations representing approximately 40 percent of Cabot's assets which are being approximately 40. ent of Cabot's assets which are being sold as part of a major restructuring program-lemarks involved in this transaction are "KBI," "Kawecki," "Tibor," "Titai," and Trademarks involved in this transaction are "KBI," "Kawecki," "Tibor,"

Owens-Corning Tells Restructuring Plan

Owans-Corning Corporation last week revealed a recapitalization plan that will be based on the divestment of low-margin businesses accounting for about one-third of its revenues. After implementation of the plan, sales will be about \$2.4 billion, as compared with \$3.8 billion as compared. with \$3.8 billion now. Gross margin on sales is expected to advance from 22.9 parcent to

AROMATICS

Continued from Paga 13

week. The market had been quoted at 81c. per gallon since late September, and the firming trend is attributed to a slight pickup in demand that could be part of a trend.

tives' views of both current and future busi-

ness conditions. Fewer than one-third of the

executives surveyed expect the U.S. econ-

only to improve during the next six months. Busineas leaders are apparently leas aan-

guine than they were carlier this year about

the economic impact of new federal tax poli-

cles, this country's trade balance and even

the still relatively low rates of inflation,"

explains Conference Board economist Steven

Mailıı, who directs this survey. "Latest Index

readings show that the executivea who head

this nation's major businesses have lowered

their expectationa for the economy at large

Strong competitive pressures win amit

price hikes during the rest of 1888 and 1987.

Only 12 percent expect their prices to accel-

erate in 1987; another 21 percent plan to

raise prices of the same rate as this year, 8

percent expect their prices to decline. The

arge majority (81 percent) look for prices to

rise slower next year than in 1988 or antici-

pate no change in their price levels.

and their own industries as weil."

"Everyhody loaded up before prices went to 85c. per gallon," says a trader, and these consumers "are going to have to reload" dur-ing the second half of October.

The spot toluene market was quoted beand 67c per callon last week. virtually unchanged from a week earlier, although the price did drop to 64c. per gallon in the Interim. The price fluctuations are said to reflect the gasoline market.

Xylene is quoted on the spot market at 78c. per galion, a price that has changed very little during the past several weeks.

Industry sources expect basic aromatics oricing to hold steady or possibly turn slightly upwards during the balance of the fourth quarter, provided that Organization of Petroleum Exporting Countries' output quo-tas, styrene demand, and European octane demand hold up.

In Montreal, Canada, a Petro Canada Ltd. unit has bean shut since an explosion and fire at the company's reformer. The BTX unit was damaged, and is acheduled to reatart

The lost production has a tightening effect on the North American market, says a US producer, who observes that Petro Canada sells a fair amount of material in the Guif Coast. It is believed possible that the compaoy may even need to buy some BTX in

PHENOL - Producers say customers in the phenolic resins business played an instrumental role in the fallure of the October 1 industry-wide 2c. per pound price initiative. Phenolic resins account for about 45 percent of phenol demand. One producer comments that this typically is a difficult time of the year to raise prices since demand la season-

USS Chemicals says It has returned to full production this month at its 800-million-pound-per-year Haverhili, Ohlo plant, which was down from September 20 to October 1 due to a mechanicai problem with the oxidizer. "We lost some production, but covered all our customers," a spokesman says.

A rival producer says that USS's flownline had "some minor impact on the market." The prompt resumption of production minimized any tightening effect, he says, since, at the time the plant went down, it appeared likely it might be out of commission for considerably longer than 10 days.

Searle Case

Continued from Paga 5

state court said the law unduly interferred with interstate commerce.

But the 3rd US Circuit Court of Appeals last January aaid the 1083 ruling should not be applied retroactively to the Coim's cosc. It ordered Searle to defend Itself at trial against the couple's suit.

In appealing to the Supreme Court, is awyers for Serle said there are hundreds of other pending sults in New Jersey against out-of-state companies that are affected by the 3rd circuit court ruling.

The Supreme Court ruled in the Cohn's favor four years ago, when by an 8-1 vote it refused to kill the lawsuit. At that time, the justices said the state law did not violate equal-protection rights but reached no declsion on the interstate-commerce Issue.

Business Confidence Slips Eleven Points

Business leaders in virtually ail major industries are far less confident about the US economy than they were only a few months ago, the Conference Board says. The board's quarterly survey covers about 1,000 business leaders in 24 major industries.

The Board's measure of business confidence (1985=100) tumbled to 50 in the third quarter, down from 81 ln the first and second quarters of this year.

Sharp declines were recorded in top execu-

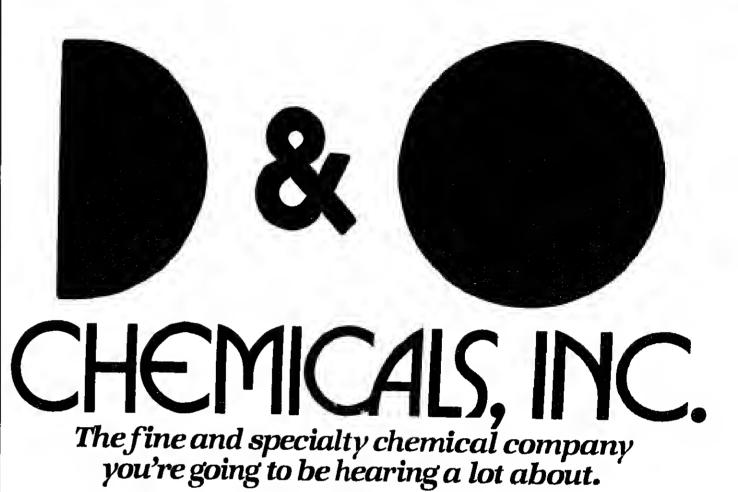
CHLOROBENZENES

Monochlorobenzene

PARADICHLOROBENZENE • ORTHODICHLOROBENZENE (HIGH PURITY AND TECHNICAL GRADES)

1,2,4 TRICHLOROBENZENE (PURE AND TECHNICAL GRADES) MURIATIC ACID 20° & 22° Be 1,2,3 TRICHLOROBENZENE

Standard Chlorine Chemical Co., Inc. 1035 Belleville Turnplke, Kearny, N.J. 07032 • Tele. (201) 997-1700 Telex 138345



SALES: Beceuse our increesed seles steff makes it possible for a greeter number of companies to benefit from our service and competitive TIMING: Come on you've sen deeling with the competition and how often have you sweated the delivery? We keep our promise!

SERVICE: We have the ebility to source those herd-to-find chamicals or to custom tailor e product domestically or

QUALITY: Specielty chemicals ere sold on specifications and it's our responsibility to ensure

GUARANTEE: We stand behind every product.

that's why

P.O. BOX 29 FORT LEE, NEW JERSEY • 07204 • 1-600-722-3688 Talex #84280400C-FORT Oable Address OOCHEM, Fort Lee NJ-201-767-8110

October 20, 1988

NISSAN CHEMICAL INDUSTRIES, LTD.

KOWA-HITOTSUBASHI BUILDING., 7-1, 3-CHOME KANDA-NISHIKI-CHO, CHIYOOA-KU, TOKYO, JAPAN TELEX NISCTK J 222-3071 PHONE TOKYO 03-298-8273 TELCOPY TO KYO 03-296-8360

BETANAPHTHOL & BONA & G SALT AMINO G & GAMMA & J ACIDS **METANILIC ACID TOBIAS ACID**

MONTEDISON USA, INC.

22 monteoison

CUSTOM SYNTHESIS

FINE CHEMICALS

SPECIALTY POLYMERS • PHARMACEUTICAL INTERMEDIATES



RAYLO CHEMICALS Divisor of Terochem Laboratories Ltd.

8045 Argyll Road, Edmonton, Alberia, Canada T6C 4A9

Consistent quality in aluminum chloride anhydrous catalyst.

Stalistical process control.

To make sure you get the most consistent quality possible, we've instituted a rigorous statistical process control system.

That means you can count on our aluminum chloride anhydrous catalysts to deliver even more consistent performance in your process.

High-purity or technical grades.

Pearsall high-purity adminium chloride may provide decreased byproduct formation, increased yield, improved washing efficiency, decreased reactor time, enhanced down-stream processing, improved polymerization performance and lower iron content.

Both the high-purity and technical grades are available as lump, rice or powder. In drums, bins, trailers, bags or pails.

And we have more than quality products. Our new computerized OPS (Order Processing System) program helps us provide you with qualityservice. I rom order to shipping, we can track any order for you in just minutes. Pearsall® Products.

For more details, contact: Argus Division, Witco Corporation, P.O. Box 42817, Houston, TX 77242-2817, Or call 713-975-5800

Witco

CHEMICAL MARKETING REPORTER

October 20, 1886

Specialty Sales to Rise. But Industry Is Changing

increase by 5 percent to 6 percent annu- ples Republic of China (PRC). ally through 1990, roughly equivalent to twice the annual growth of the entire chemical industry. However, despite its rapid growth, the specialty chemical industry is experiencing a series of

These changes will require different strategies and tactica on the part of specialty chemical auppliers to cope with the new environment, according to Andrew A. Boecone, executive vice-president of C.H. Kline & Co.'s Chemicals Group.

Of the 47 categories of specialty chemicals analyzed by Kline, only aeven will exhibit singificantly better-tban-average growth over the next five years. "The businesses which will experience the greatest Increase in aales are those with rapidly changing technoiogy such as diagnostie aids, electronic chemicals and materials, and apecialty polymera," says Mr. Boccone.

RESEARCH AND DEVELOPMENT

As a result, eompaoles wishing to participate in these businessea will have to spend a reater percentage of aales on research and levelopment than that normally associated with other apecialty chemical businesses. Giobai marketing of products and services will be important to get the most mileage out of the R&D expenditure.

"Successful suppliers in these high-tech, giamour businesses will be those companies who are on the leading edge of product devel-opment and anticipate change rather than eaponding to the customer needs," Mr. Boc-

Different strategies for growth will be required by those companies participating in the more mature specialty businesses. Suppilers of such specialty chemicals as cos-metic additives, industrial coatings, and water management chemicals will seek to expand by identifying product niches, endmarket segments, or geographic regions exhibiting better-than average growth, accord-

Because of the hard times which have failen upon some of the domeatic end users of apecialty chemicals, suppliers of specialty chemicals will seek to develop their businesses internationally. For example, US steelmaking has shrunk to one-half ita size over the paat five to eight years.

INTERNATIONAL SALES

As a result, such suppliera of water treatment chemicals and specialty metalworking fluids as Naico and Quaker Chemicai have continued to develop their international businesses to a level where today international sales account for roughly 20 percent and 40 percent of their total corporate revenues,

"On the other hand," Mr. Boceone adds, "we are seeing greater ownership of US specialty businesaes by foreign firma than ever before." US-based chemical companies are taking a long hard look at their businesses and divesting those units which no ionger fit in their future plana. In 1985 there were some 104 acquisitions of US-based chemical and ailled trade organizations by Europeanbased companies including 24 specialty chemical businesses. Some of the most active European acquirera include Akzo, BASF, Henkel, and ICf. "Japanese firms, which have traditionally sought either to acquire technology or to enter into a joint venture, are also now seeking to acquire," according to Mr. Boccone. For example, Japan's Dainippon Ink & Chemicais plans to acquire Sun Chemical's grapbic arta and materiala business for \$550 million.

Foreign investors tend to be more patient mis irom linanciai consid erations. Such investmenta are viewed as part of their long-ronge plana for globallzstion, and as a vehicle to give them a window on new markets and technologies. If this trend continues, we will aee a consolidation of specialty ehemical businesses in the hands of fewer and more international auppilers.

What iles ahead for the US specialty chemical business by the year 2000? There will continue to be increased globalization, partleularly in the developing regions of the

1.

US sales of specialty chemicals will world such as Southeast Asis and in the Peo-

New specialty businesses will develop and replace the more mature ones. According to Mr. Boccone, these businesses will probably nossess a greater technology and materials component and encompass total system ca-

Such developments will be the seeds for growing new speciaity ehemical companies. Additionally, the large chemical companies will continue to assess their portfolios which may lead to the divestiture of some specialty

Continuad from Paga 5

decreased 16 percent and solid urea dropped

Exports of ammonium suifate continueds strong performance relative to last year, and shipments now total 250,000 tons. Exports of other nitrogen products declined in the iiy-August comparison

Domestie diaappearance of processed phosphstes dropped 63 percent in August 1988, compared with the same month of 1985. All products except normal superphosphale decilned, including phosphate rock which dropped 9 percent.

Production of all processed phosphales was less or unchanged relative to last year, and phosphate rock was 14 percent less Recorded production of DAP was 6 percent less, MAP was 19 percent less and concentrated super phosphate declined 11 percent.

The ending inventory of DAP was un-ehanged from last year, and MAP was I pereent less. Concentrated superphosphate inventory increased 18 percent, and wet process phosphorie acid increased 9 percent.

Phosphate exports were mixed relative to last year, with phosphorie acid and concentrated superphosphate improving, and other products, including rock, declining. DAP exports now total just over i million tons for the uly-August period, a 12 percent loss from

Domestie disappearance of potash produets was unchanged in August 1986 relative to the same month of 1985. Standard and coarse muriate declined, while granular la-

Production in the US declined i percent with an increase in granular production being offset by decreases in standard and eoarse. The ending inventory of potash materiais dropped 13 percent in total, due to reductions in coarse and standard murlates.

USX Spins Off

Continuad from Paga 9

\$50 million of which would be used for work-

USX aaid recently that it would divest ils chemical business and study several other restructuring moves after it became learned that Cari C. Icoin, a New York investor, bed been accumulating a substantial atake in USX, pointing toward a possible takener effort. Two other investors also were buying heavily into the company.

Mr. leahn, who recently won control TransWorld Airlines, subsequently made an offer to acquire USX for \$31 per share, or a total of \$7.19 billion. USX said that it would evaluate the bld, and has not since commented on it. It is assumed that if the bid is rejected out of hand, Mr. Icahn will proceed with a tender offar to the company's share

USX's divestment plan for the chemical division has some features in common with Allied-Signal, Inc.'s apin-off earliar this year of 35 ehemical and assorted businesses into 3 new publicly held company called Henley Group. Allied-Signal, however, kapt sround one-third of the Henley sharea for lisely, while the others are now in the public domain after a spin-off to Ailled-Signal shareboldets

Proceeds to USX from the said of the chemical division will total between \$500 million and \$575 million. In ona way of adother, these funds could be used by USX to defend against a forced merger.

ALIPHATIC ORGANICS

Butene-1 Levels Off Continued from Paga 5

"Dowlex" process. At present, a Carbide official says the company uses far more butene-1 than hexene-1, but the Cs alphaolefin's making rapid penetration. Sources say that butene-1 will retain a

large demand base in commodity LLDPE film grades used for producing Items like trash baga, institutional liners, and grocery sacks. However, these markets are viewed as maiure, and US manufacturers are Increasingly focusing on higher performance grades

of resin
The commodity grades of LLDPE are being produced to abundance, however, by Saudi Arabla, and other new centers of polyethylene production. As a result, some observera view the export market as a growth market for US butene- i makers. Bureau of Cenaus figures reveal that exports of butylenes, a basket category dominated by butene-1, are running 8 per cent ahead of last year through the first eight months of 1988. An impressive achievement, since world capacity is estimated to exceed demand by 150million pounds.

Despite a strong year for polyethylene makers, most market obscrvers have characierized the butene-1 market as being aoft for most of the year, and pricing has been weak. Pricing has been adversely affected by the collapse of oil prices early in the year, of course, but market conditions have also played a role. As recently as April, sources said butene-1 prices atood at 26 cents per pound for chemical applications. Since then, prices have slid to 18 cents per pound or worse, before firming in recent weeks to just under 20 cents per pound.

CHEVRON EXPANDING

In addition to some price firming in recent seeks, several butene-1 makers have said that supplies have tightened, although a clear onsensus oo thia trend has failed to emerge. ii is known that Chevron, a smailish butene- i maker, has taken down time in September and October in order to expand its alphaolelins plant at Cedar Bayou. The expression will boost alpha-olefin capacity there from 200 million pounds to 250 millton pounds per year. Within this increase, butene-1 capacity will rise from 28 million pounds to 35 million pounds per year. The facility is due back on

Sources note, however, that Chevron's downed capacity is not large enough by itself to cause market tightness. It is been suggested by several observers that iExxon is experiencing operating "problems" at its large Baytown, Tex. butene-1 unit, but the company flally dismisses this charge. Never-

ing to hexene-1 as a preferred theiess, several acurcea any supplies have tightened recently. Texas Petrochemicals' large capacity at Houston is sold out, one source states.

The descriptiona of Exxon'a "problems "at Baytown center around raw material disiocations. Some theorize Exxon can't get enough raffinate-2 raw material for its butene-i unit. One knowledgeable aource, however, refutes this theory and suggests that Exxon is simply directing a large por

PRICES TRENDLINES

WEEK ENDING OCT. 17, 1986

CHANGES/UP

CHANGES/DOWN

ALIPHATICS INDEX

Tha Allphatic Organics Index raflacts tha prices of 20 rapresantative materials in this sactor and the quantity of each

Oct. 17, 1986	222.80
Oct. 18, 1985	222.80

Chemical Prices Start on Page 38

tion of its raffinate-2 output into the gasoline pool where it is a valuobic source of alkyla

Whatever problema may exist, sources say this supply tightness is very temporary, and hutene 1 avnilability will most likely return to a loose footing by year end.

GLYCERINE — Two glycerine producers liave announced price reductions, effective earlier this month.

Emery Chemicals announced n 5c. per nound roll-back on oil grades of CP/USP lycerine. The reduction becomes effective October 6. New prices for bulk ahipments delivered East of the Rockies are os follows: "Emery 912" giycerine, 96 percent, 82.75c. per pound; "Emery 916" giycerine, 99.5 per cent, 84.5c. per pound; "Emery 918 Uitra" giyecrlne, 99.7 percent, 88.5c. per pound. Shipments Weat of the Rockies earry a premium of 4c. per pound.

In odditinn, Dow Chemical announced a 3e. per pound list decrease and instituted a 2c. ner pound TVA on giycerine, retroactive to October 4. New pricea are as follows: glycerinc, 90.5 percent USP, 88c. per pound plus a 2c.-per pound TVA; glycerine, 96 percent tISP, 86.25e. per pound plus a 2e.-per-pound TVA. On both gradea, selier obsorbs freight. Emery producers natural giycerine, while

二、4、4年前一、6、16月1日開始

ALIPHATIC ORGANIC IMPORTS: AUGUST

BUREAU OF CENSUS FIGURES FOR THE KEY ALIPHATICS

I a	MUUU	al	J	JLT
Acetic acid	QUANTITY	S VALUE*	QUANTITY	\$ VALUE
celic anhydride. iba.	8,628,272	1,268,818	79,684	41.764
	1,453	6,760	39,308	8.688
	12,032,279	1.762.120	86,981,943	8,666,527
Chioroaceic acid lbs. Chanol (industriel) lbs. Chanol (industriel)	1,162	8.090	2,014	4,718
thenol (industrial)	2,483,220	902,024	3,671,626	1,161,557
chancimidestiel) ibs. chancimidestiel) ibs. chanciamines gels. thylenegate ibs. thylenegate the	17,507,398	14,082,678	4,813,892	3,877,154
thylacrylate the thickness the	86,169		168.221	
thylene glycot libe. d'mic acid libe. Nyoxa'	90,109	S9,423	100,221	44,098
Ofmic said	40 007 070	A 407 700	40 0-4 -00	1,439
Munual	45,807,076	9,427,788	42,976,708	0,793,614
OTATION.	1,316,410	265,988	152,600	41,492
Anie ani i entre mine	17,824	7,369	2,471,488	782,033
tos. Actic acid. the. Self-amethylenatetramine. the. Self-acid. the.	166,548	66,748	115,526	64,428
Actic acid. Upe.	670,877	569,889	1,911,811	955,910
attend 108	26,696,796	869,032		
thy ethy ketone	2,913,860	466,223	3,501,343	607,820
lethyl ethyl ketone lbe. Methyl-2-pyrrolldone lbe.	6,487,872	983,423	1,687,724	342,027
Methyl-2-pyrrolldone ibs.	36,537	46,664	35,991	44,142
rtanoi. ibs. rtanoi. ibs. ideic scid. ibs. selic scid. ibs. selesrythriol end di-PE ibs.	1,066,446	278,614		
integrythrifol and at her	1,5428,967	460,630	1,939,896	865,980
enterrythriol end di-PE lbs. enterrythriol end di-PE lbs. enthercethylens lbs.	1,512,466	752,236	1,441,932	807,679
rechiprocitylens ibs. copylens oxide ibs. drylens oxide ibs. drylens oxide ibs. drylens ibs.	6,724,464	1,350,917	29,168,267	4,630,679
orbic acid. Ine	2,926,220	962,868	2,002,760	753,507
oveathyl lead (he	264,036	601,137	791,500	1.667,956
orbic acide ba	1,650,008	160,845	101,000	1,001,000
			5,980,733	\$14,615
	1,126,560	197,643	0,200,100	* 1.5,015
	163	1,009	070 507	464,969
igures represent C I E value	165,966	545,500	278,567	404,008

WHEN YOU NEED ETHYLENEAMINES... **COME TO US**

Ethylenediamine: Diethylenetriamine. Expanded capacity. Based on Texaco proprietary technology.

Allania (404) 321-4411 Chicago (312) 920-3685 Cleveland (216) 752-5100 Houston (713) 520-3628 Los Angales (714) 898-9278 New York (914) 253-7861 London 44-1-584-5000 Toronio (416) 441-7761 U.S. Distribulor Sales (713) 432-3866

Texaco Chemical Company

We are a Full-Line Chemical Distributor Specializing in...

COSMETIC INGREDIENTS

Pure and SDA Alcohols

White Mineral Oils Cosmetic Solvents Glycols Polyethylene Glycols Propylene Carbonate Benzyl Alcohol Call: (201) 941.3480

Metro Oil & Chemical Corp. Hudson Ave. Ridgefield, NJ 07657





ALIPHATICS

Dow makes a synthetic product.

Both producers say the Increase is in reaponse to current market conditions. One industry source says that Proctor & Gamble, the largest natural glycerine producer, has enacted a similar decrease. Proctor & Gamble recently announced expansion of its glycerine refining capacity (CMR, 9/29/86, pg. 7.).

Burmah Oil Sets

Continuad from Paga 7

pany, a Long fsland-based producer of adhesives, with salea nearing \$25 million. With the acquialtion of Columbia Cement, Burmah establiahad adhesives as its fifth specialty chemicalssector.

Mr. Urquhart says that Burmah Oll definitely wanta to establish a firmer footing in specialty coatinga, and he reveals that the company has look at, and rejected at least one new US opportunity in this sector. He adds that it is currently investigating several

othera. For "Caatroi" lubricants, he aces a doubling of US business within five years to

Burmah Technical Servicea manufactures water treatment chemicals as well as process treatment chemicals sold to the automotive, paper, petroleum, oilfield production and other industries. The unit's acalytical services division provides sampling and onalysis for a variety of industrial companies and consulting firms.

Burmab Oll is the transporter of liquefied natural gas from the world's largest LNG project in Indonesia to Japan.

Kerr-McGee Fined by NRC

The Nuclear Regulatory Commission unanimously agreed last week to allow a Kerr-McGee Corp. aubsidiary to resume operations at its uranium processing plant after fining the company \$310,000 for violations related to a January 4 accident that resulted in the death of a worker.

Most of the fine, \$300,000, is for three vio-

GET A LOAD OF A SHELL FIRST:

THE 24 HOUR AUTOMATED

SOLVENTS TERMINAL.

lations directly associated with the accident at the Sequoyah Fuels Corp. plant near Gore, Okla.

NRC inveatigators said a steel shipping cylinder was accidentally overfilled with uranium hexafluoride, used in the manufacture of nuclear fuel rods, because a cart was improperly placed on a scale.

Workers moved the cylinder into a steam heating chest in an effort to bleed off the excess material, which solidifies at normal temperatures. Instead, the cylinder ruptured

The NRC and Sequoyah Fuels, a uranium processing company, failed to adhere to a written operating procedure for heating an overflited container of uranium hexafluoride.

In addition, two of the plant's four shifts bad no documented training in the operations procedures for handling overfilled cylinders, and the shift manager did not have a thorough knowledge of the procedures, according to NRC.

The accident sprayed caustic fumes up to 18 miles downwind from the plant site. One worker died after being trapped in the acid spray and inhaling the fumes. Another 30 people were hospitalized overnight after

breothing the fumes, and about 100 people, including area residents and motorists on a nearby interstate highway, consulted physicinus.

In n letter advising the company of the fines, Junes M. Taylor, director of NRC2 office of inspection and enforcement, said the violations "involved flagrant NRC-identified violations that reflect a serious break down in management controls."

fn addition, the ennips was fined \$10,000 for four violations not directly related to the accident.

Those violations were failure to have written, approved procedures for certain radiation safety activities, failure to respond properly as outlined in a contingency plan auhmitted to NRC in 1982, and failure to update that plan as required.

Kerr-McGcc officials said they will meet with NRC to discuss a start-up date for the Sequoyah plant. The company must first submit the name of a consultant to oversee the Gore plant's operations, and the consulting firm must be approved by the NRC staif.

Midland Chemical Acquires Magee

John P. Roth, president of Midland Chicago Corporation (formerly Midland Chemical), Chicago, Ill. has acquired Magee industries. These two privately-owned companies are both in the field of floor maintenance and related chemical specialty products.

Magee Industries will operate as a division of Midland. All key Magee personnel, including customer service representatives, have been retained, and the plont will remain in operation in Des Plaines for the time being. The Magee product line and price lists now in effect also remain unchanged currently.

Midland has broken ground on a largeaddition to its plant in Alsip, IL, and it is anticipated that in a few months both divisions will operate from the same facility.

EG & G Lubricant Unit Slated for Chevron

EG & G Inc. announced that its lubricant technology center, designed and constructed in San Antonio, Tex. for Chevron Chemical Company, will be in full operation by January, 1987, six months before the contractual deadline.

Twenty-two of the twenty-five stationary test stands have been approved as required by the American Society of Testing and Materials. The LTC will be operated by EG & G research personnel and will test inbricant products and additives for Chevron's Oronite additives division. EG & G hopes to realize

Need a Quick Study? Chemical Profiles

Thioglycolates TGA • 2 ATG ATG • GMTG • MEAT Products for hair-waving.

Products for hair-wavin hair-straightening and depilatory formulations.



Argus Division
Wilco Corporation
633 Court Street
Brooklyn, New York 11231-2193

718-858-5678 **Witco**

Hercules, Dow

Continued from Paga 9

ciude an exceptional 32 percent increase in worldwide pharmaceutical sales. The overseas increase was paced by soles of oliergy and cold products in Europe and Japan, and dermatologics in Latin America. Strong gains also were tallied in anti-infective and anti-cancer product lines, Mr. Luciano sald.

PPG industries Inc. had earnings of \$82.5 million in the quarter, as compared with \$73.9 million a year ago. Vincent A. Sarnl, board chairman, comments that growth of the economy has been sluggish, and the trend is expected to continue in the present quarter. PPG's glass business experienced increased sales, while the company's coating business gained market share. Mr. Sarni commented. In chemicals, volume was relatively strong except for potash, he noted.

PFIZER GAINS

Pfizer bad a 14 percent increase in net income to the quarter to \$178.6 million, while sales increased to \$1.1831 billion from \$1.0128 billion.

Strongest performers for the quarter were worldwide hospital products and consumer products, with respective gains of 30 percent and 17 percent, a spokesman for Pfizer and.

Warner-Lambert's net income in the periodincreased 17 percent. Joseph D. Williams, chairmao and CEO, attributed the gains to increased productivity and improved sales in all business aegments.

Merck & Co. had a 27 percent increase in third-quarter net income to \$173 million, as sales advanced 23 percent to \$1.1 billion. Unit volume gains registered by both the company's domestic and international operations contributed to sales growth in the quarter and the first nine months, said Dr. Roy Vagelos, chairman and CEO.

Charles S. Locke, chalrman and CEO of Morion-Thiokoi, disclosed net income of \$33,060,000, down from \$34,753,000 n year ago.

ago.
The main factor in the decline was the interruption of the space shuttle program. Specialty chemical sales increased 13 percent and earnings were up 34 percent, while salt and salt products had an 18 percent eorn-

Why should you spend more for equivalent performance?

KELIG® 100

low cost

The new halternative to Sodium Gluconate. Now available in truckload quantities.

Find out how much you can save in your formulations with KELIG® 100.
Contact:

REED LIGNIN

81 Holly Hill Lane, Greenwich, Connecticut 06830

76: [203] 625-0701 Riex: 643994

the section will be seen as any section and

ings increase on a 2 percent increase in aales,

fn other reports late last week, Koppers Company sald its earnings in the quarter advonced to \$1.05 per sharc from \$1 last year; international Minerals & Chemical Corporation disclosed net earninga of \$2.3 million, down from \$8.9 million last year, and GAF Corporation said its earninga were a record \$24.5 million, as compared with \$15.6 million a year ago.

fn a late pharmaceutical report. Upjohn Company said its quarterly earnings from continuing operations in the period were \$81 million, an increase of 33 percent from \$48 million in the same 1985 quarter.

In the coametics and toiletries industry, Avon Products incorporated reported a 80 percent increase in earnings per share from continuing operations to 40 cents from 25 cents a year earlier. Htcks Waldron noted this was the fourth consecutive quarter of increased earnings.

SUPER DIGLYME SPC's E-141

Now at the lowest price in the industry from the Ether Experts

SpecialtyChem"

SpecialtyChem Products Corporation Member ChemOesign Group, Two Stanto



Focus on purity. GPC ethyl alcohol.



Maybe it's time you took a closer look at GPC ethyl alcohol. When you do, you'll find something impressive: a standard of purity that stands up to the closest scrutiny. It's the product of thirty years devoted to supplying demanding customers like you.

Examine GPC's 190-proof and benzene-free anhydrous

pure ethyl alcohols. specially denatured alcohols and special industrial and proprietary solvents. Compare them to competitive products. For product-to-product shipment-to-shipment quality nothing available surpasses GPC's stringent purity standards.

So take a close look. You'll like what GPC I to offer—

clearly superior ethyl alcohol. Write: Grain Processing Corporation, 1600 Oregon Street, Muscatine, Iowa 52761. Or call [319] 264-4265 or Telex 468497.

Clearly I GPC Superior L Ethyl Alcohol

1. 1985 Grain Processing Corporation

Shell Chemical Company

CHEMICAL MARKETING REPORTER

It's the height of convenience.

minal in Carson, California,

day, 365 days a year.

Now you can schedule pick up of hydrocarbon

Where? From Sheli's Dominguez Solvents Ter-

It's equipped with a state-of-the-art automated.

te line of certitled, on-spec solvents — salely

to improve your vehicle utilization, shorten turn-

around time and Increase scheduling flexibility.

using this new service know how to operate the

and efficiently whenever you need them. This helps

How does it work? To make sure that all those

computerized loading system that dispenses a com-

and oxygenated solvents any time of the night or

October 20, 1986

quality solvents.

equipment, Shell will train your drivers and issue them an euthorization number. After your order

has been placed with our Anaheim Order Center,

your driver's authorization number will allow

easy access to the most convenient supply of

from Shell-any time, day or night.

United States call 1-800-447-4355.

The next time you need solvents -get a load

For more information about the Shell 24 hour

self-serve solvents stetion call one of the phone

numbers listed below. Los Angeles (213) 585-

0660; rest of Calliomia 1-800-422-4202; other

western states 1-800-854-3857; in the rest of the

THE TALL THE

- MONOMETHYLAMINE
- **DIMETHYLAMINE**
- TRIMETHYLAMINE
- RAILCARS TANK TRUCKS
- DRUMS
- CYLINDERS

IMC, your Methylamines supplier; with 55 years of service excellence as a producer of high-quality products...a full line of products and a full line of delivery capability. With the knowhow and technical support to back them up.



YEARS OF SERVICE EXCELLENCE IN METHYLAMINES

FOR MORE INFORMATION WRITE OR CALL:



International Minerals & Chemical Corporation 421 E. Hawley Street Mundelein, Illinois 60060 (312) 566-2600



- Dlazoxide
- Diphenoxylate
- Glycopyrrolate
- Scopolamine N-Butyl Bromide
- Sennosides

Please Contact Exclusive U.S.A. Representatives:

Phone: 201-261-7333 Cable: INTERCHEM-PARAMUS, N.J. Telex: 6653353



120 Rt. 17 North, Poramus Piozo 2, Sulta 115 / Poramus, N.J. Q7652

Sulk Pharmnesulicals - Vitomins - Fine Chemicals - Intermediate

Oil Dependency Is Seen As Danger for the 1990's

The nation is embarked on a "headlong rush to foreign oil dependency," Amoco Corporation Chairman Richard M. Morrow aava.

And the government's near silence on the issue, and the acilons taken by Congress particularly during the last decade - have actually worked to hasten and magnify this

Speaking before the recent annual meeting of the Texas Mid-Continent Oli & Gas Association, Mr. Morrow contrasted this with the stated Soviet aim of inauring reilable energy supplies for Itseif and its ailies.

In 1988, when the US rig count was dipping to new lows, the Soviet count was climbing to record highs. "If present trends continue," he said, "the Soviet Union will soon pass this country in total footage drilled, despite the handicaps of less efficient equipment and in-

Although there is "a high level of uncertainty about the future," Mr. Morrow says that even the most optimistic scenario would result in a substantial decline in US produc-

"And with demand increasing due to lower oil prices," he said, "it is no exaggeration to forecast that US dependence on foreign oil imports could risa to 60 percent of supply by

Heightening the dangers of this trend is the growing influence of Iran in OPEC and the can ride out our present difficulties once ffairs of the Middle East. "With ahundant

evidence of this country's greater future de-pendence on Middle East oil, tha ascendance of a hostile state like Iran could have prooundly serious consequences," be says.

The situation could escalate to a threat in

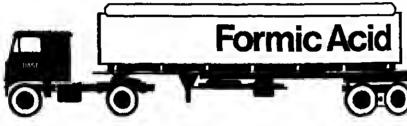
national and economic security, he confi

Mr. Morrow'a racommendations sirengthen the nation's energy security include repeal of the misnamed Windfall Proits Tax. The tax was wrong in conception is said, and is now ineffective in execution given the current levsl of oil prices. Therefore, repeal would represent no loss of recaue to the government but would remove potential fulure drain on industry investment

He also suggests the complete decontrol of natural gas, which also would have little effect on consumers, and that the government step up purchases of domestic oil for the Strategic Peiroleum Reserve. "Doing so," in says, "would provide the domestic industry with a modest increase in revenue, while helping to assure protection against polentiol future supply problems."

Beyond these near-term measures, ik Amoco chairman said that it is inevitable that the economics of the oil business will be restored to more rational levels. Meanwhile despite the formidable challenges, he concludes, the industry must "go forward in the knowledga and with the confidence that we again as we have done so often in the past"

BASF Intermediates



Now! A major source. A reliable source.

From the largest,

most advanced plant in the world.

The BASF Intermediates Taam is your direct line to the world's most advanced plant dedicated solely to Formic Acid production. Our 220,000,000 pound capacity lets us supply the whole market and we can serve you with Formic Acid in a range of strangths and deliver it when you want it.

Unsurpassed purity

We produce Formic Acid because we want itnot as a by-product. As a result, it contains virtually no other acids or undesirable by-products. So whether you use it as an acidulant or an intermediate, you get what you want-Formic Acid.

A sure source—a steady source

The BASF Team is ready to supply your needs from either of two bulk storage locations: in the Southeast or the Northeast.

For datails, technical data or samples, call or write Intermediate Chemicals customer service.

SF Corporation Chemicals Division Parsippany, NJ 07054-9985 (800) 526-1072

Intermediates and Fine Chamicala

BASF

DRUGS & FINE CHEMICALS

Rhone-Poulenc Xanthan Is Now on Line in France

gum capacity expansion, originally slated for June, is now complete. The company's xanthan gum capacity was increased to 4,500 metric tons from 3.000 metric tons, and production began

in September.

A Rhone-Poulenc spokesman says the decision to expand capacity was made in late 1984 or early 1985, so the 1988 arrivals of Ceca SA and Miles Laboratories, Inc. on the xsnthan gum scene did not cause the company to reconsider its expansion. "It's not the kind of plant that can be put up in six months. it's a loog-term process.

The two recent arrivals, Ceca SA and Miles, eniered the market around the beginning of 1988. The companies gave similar reasons for their decisions to enter. Essentisfly, xanthan gum is considered a logical extension of the companies' product lines. NEWCOMERS OPTIMISTIC

A Miles spokesman notes that the company is "pleased with (its) advance in the market place. We're pleased with our acceptance." A Cecs SA spokesman admits that the start-up process is a slow one, but adds the situation is the same when starting up any product. He claims the markat for xanthan gum is a trong, and thinks Ceca SA will see substantial growth in 1987. Both companies are said to price their product "compatitively." Ceca SA imports from France, and Miles imports

Other established sources continue to show relative indifference concerning the new players, "I think they're experiencing a very formidable challenge of scaling up to produciloo of xanthan gum," says one trade source. Elaborating, be says, "It's taken us a long lime to get where wa sre today." He says that while smalt-scale production can be done in laboratories, "large-scale production is dif-ferent. I believe they're experiencing prob-lems. It's not surprising. We've gone through it. Fortunately, we're through the learning

Another player notes that his company's capacity is large enough to aatisfy requirements and he doesn't foresee losing many

One company selisits product for \$5.65 per pound, while another cinims pricing is higher, between \$5.73 and \$5.80 per pound.

Both companies say there is no discounting.
Players note that, contrary to usual practice, no company has thus far iniliated a Fnii price increase. Generolly, they clnim, pricas rise in either September or October.

Pfizer, Inc., the domestic producar of industrial grade xanthan gum notes that de-mand ladown, because much of the product is

DRUG & FINE CHEMICAL EXPORTS: AUGUST

BUREAU OF CENSUS FIGURES ON THE KEY DRUGS.

earmarked for the oil industry, which is cur-

A spokesman says that its industrial grade's price has come down recently becauss of technological developments. He says once the oil situation improves, xanthan gum pricing abould either remain the sama or decrease further.

Prices are as follows: \$1.70 per pound, active, for 4 ½ percent broth, f.o.b. plant; \$2.50

PRICES TRENDLINES

WEEK ENDING OCT. 17, 1986

CHANGES/UP

CHANGES/DOWN

DRUGS INDEX

The Drugs & Fina Chemicale Index relacts the prices of 10 representative matarials in this sector and the quantity

Chemical Prices Start on F	Page 36
Oct. 16, 1965	211.16
Sapt. 19, 1966	211.16
Oci. 10, 1966	
Oct. 17, 1966	211.16
or aach produced in 1965.	

per pound, active, for concentrated 121/2 per cent solution, and between \$3.75 and \$4.25 per pound for powder, depending on quantity,

AMPHOTERIC ACRYLIC RESIN - National Starch & Chemical Corporation is initiating a 3.5 percent price hike for "Amphomer," the company's amphoteric acrylic resin. The new price will be \$3.52 per pound, in Iruckload quantities, effective October 20.

A spokesman says the increase is needed to reflect cost increases for raw materials and certain operating expenses. This is the first increase for this product, used in hair sprays and cosmelics, since early 1964.

SACCIIARIN - The saccharin markel has tabilized in 1966, agree importers and PMC Specialties, the only domestic source of the product. Last year was characterized by inventory rend justinents.

A spokesman for PMC says that pricing i depressed, but may have reached a low point Prices for sodium saccharin arasaid to range from \$2.50 to \$2.75 per pound. One source notes that some sodium saccharin can be bought for less, while another says that other

grodes are pricad slightly higher.
Imporis are down about 14 parcant compared to last yaar (680,000 pounds versus 1.03

QUANTITY \$ VALUE QUANTITY \$ VALUE

5,687,093 1,939,054 4,587,299 4,472,703 1,149,719

5,456 4,925,615 10,681 2,853,620 1,839 2,763,708 10,192 2,242,235 76,846 1,017,614

181,828 733,718 105,969 818,958 1,245 8,590 1,401 13,634 54,343 853,010 2,845 22,985 52,722 195,448 221,919 1,411,527

duphar

S.S.T. CORPORATION

Toli Free: (S00) 222-0921

636 Brighton Road, Clifton, NJ 07012 (201) 473-4300

Fabbrica Italiana Sintetici S.p.A.
VICENZA, ITALY

Telex Number: 843-480306 (FISVI)

Allopurinol

Diazepam USP

Chlorazepate Dipotasslu, n

Clomiphene Cltrate USP

Flurazepam HCL USP

Furazolldone USP

Indomethacin USP

Nitrofurantoin USP

Oxazepam USP

Furosemide USP

Lorazepam

Temazepam

Chlordiazepoxide Base and HCL USP

Pentazocine Base and HCL USP

Trimethobenzamide HCL USP

Trimethoprim USP-Anilln Free

"If you're talking nutrition, you're talking about us."

VITAMINS D₂ and D₃ -DRY STABLE USP

Ask also about these fine products:

- Ergocalciferol
- d-Calcium Pantothenate
- Pyridoxine Hydrochloride
- Cholecalciferol
- Folic Acid USP ■ Niacin USP

duphar can provide you with custom vitamin formulations to meet your specific nutritional requirements. duphar is ready to serve you with experience, que products, manufacturing resources and warehousing facilities across the U.S.

Call (800) 323-9092

(800) 851-8276 in Illinois

nutrition

CHEMICAL MARKET NO RESOURTER

Sources also say that because of the falling dollar, importers cannot undercut the US market, due to increased expenses. At the same time, they cannot raise pricing, because PMC is said to be very competitive.

Sources do not expect price changes until

Demand within the soft drink segment continues to fall, but one source believes demand is growing for saccbarin as an lotermediate agricultural products. Another source thinks saccharin bas potential in this area, but adds it is too early to tell.

TARTARIC ACID - The US market awalts the November European grape har-

One importer explains these contradictory phenomona by noting that while demand is

weak in the US, the foreign suppliers of the material continue to charge high prices, be-cause of increased raw material cosis. So, says the importer, although US prices have not risen during the past few months, they have not fallen from the high level renched early in the year, when prices rose between 15 and 30 percent (CMR, 4/14/86, pg. 18). As for lower-than-usual demand, most importers have no explanation, but one menions that buyers are switching to citric acid at an increased rate.

according to importers.

Pricing is between \$1.25 and \$1.35 per pound. Some importers say the \$1.35 price is about average and that \$1.40 is now uncom-

Players are cautious about speculating on the upcoming crop. Last year, worldwide shortages led to rapid firming for tartaric acid, as well as other tartrates. These products are by-products of wine-making. While surveyed importers do act expect another bad crop, a spokeswoman for Wines of Spain predicts that, while Spain's crop abould be of good quality, it will probably yield about 15 percent less thao 1985's crop. Spain is a major source of tartrates.

VITAMIN E — Elsal USA, Inc., is raising its price for synthetic vitamin E, effective

According to a spokesman, Elsai's price will increase to \$20.50 per kilogram. The weakening US dollar. Eisal brings its material to the US from Japan.

WHITENING AGENTS — The Dyestuffs & Chemicals Division of Ciba-Gelgy Is announcing a 5 percent price increase on "Thopal" flourescent whitening agents to be effective November 17, 1986. The increase, the company and in a direct to the company and in the company says, is a direct result of further increases in the cost of they raw material. para-nitrotoluene which is used in the monufacture of the major CC/DAS whiteners used by the detergent industry in the US.

Chemical Industry

Continued from Page 7

elgn investment, and ineffective protection of intellectual property rights.

If the US cannot negotiate a final agree-

ment that signitleantly improves the nation's trade balance, expands export opportunities, and reduces unfair import competition, he sald the US must be prepared to reject tha

Mr. Lang noted that at the end of the last round of GATT (General Agreement on Tar-

vest amld firm pricing and weak demand, iffs & Trade) negotiations, the US was the largest creditor nation in the world in terms of investments held ahroad compared to foreign investments in the US.

In 1985, he pointed out, the US became a debtor nation and by the end of the year her hecome the world's largest debtor nation with a dcht exceeding \$107 billion.

"The message here is to commit only in signing the final agreement if it is clearly in our economic inicrests to do so. If it is a bet deal, we must he prepared to walk sway from it, said Mr. Lang.

He also said it is critically important that the chemical industry and top company erenives participate actively in the negotiations, which are expected to last for four or

Mr. Lang questioned whether top manage ment fully understands the potential long-term impact the new GATT round could have on chemical manufacturers.

"They may well not recognize that one of the major impacts of a tariff cut of, say, 5 percent is not in the increased volume of imports which may result, but in the fact that a domostic manufacturer, in order to heldis customers, may have to meet a 5 percest iower import price - which may drop earsings on that product by 50 percent or more." he explained.

"So it isn't just that imports may go up: little bit as the result of concessions, and sometimes wonder if top management which tends to talk about trade policy in black or white, free trade versus protection iam mode to adout a bit more pregnations we go into these talks," Mr. Lang added.



Iodine istry Chemistrely Exclusively



NF Lactose 5 types of Hydrous

Direct Tableting Anhydrou

Sheffield Products

WKraft 1

Cal Bio Shifts On Its Offering

California Biotechnology Inc. announced it has filed an amendment to its statement with the Securities & Exchange Commission for an exchange offer to be made to Biotechnology Research Partners Ltd., a research and development partnership organized by California Biotechnology in 1982.

The offer would consist of two-share units of Cal Bio securities that Include a warrant to purchase one share of Cal Bio common stock and an as yet to be determined amount of eash. The warrant would remain part of the

unit until an undetermined date in 1987. If all 2,492 outstanding units are tendered in the exchange, the offer would include a unil total of 2 to 2.5 million shares of common stock, warrants to purchase 1 to 1.25 million shares, and an estimated payment of \$4 million locash. The final terms and conditions of the exchange are expected to be established by Cal Blo in November. Once the registration statement relating

to the securities that has been filed with the SEC becomes effective, the securities can be sold and offers to buy accepted.

California Blotechnology, Inc. developa formed.

Acataminophan

Aluminumgiycinate

Mafenamic Acid

Trimathoprim

Sulfamethoxazole

PIOSES PRODUCTS, INC.

Dihydroxyaluminum Sodium Carbonate

A Subsidiary of Prosas, Islanbul, Turkay

human health care products through empha sis on the discovery of molecules cantral to the disease process and the development of the disease process and the development of therapeutic and diagnostic products derived from the structure and function of these

AIDS Trial Planned

The first human trial of Viral Technologies Inc.'s potential AIDS vaccine will be conducted by Institute for Immunological Diaorders, it was announced last week.

TRAFFIC PRESS.
USP

William or Ariestonizado Viral Technologies, Inc., is a joint venture between Interleukin-2, Inc., and Alpha 1 Blomedicals, Inc. Institute for Immunological Disorders lays claim to being the sailor's first hospital devoted to AIDS research.

The trial is scheduled to begin early next year, pending the receipt of an investiga-tional new drug (IND) permit from Food & Drug Administration. Ao IND application is expacted to be filed with FDA by the first quarter of 1987.

Interleukin-2 says recent animal studies have demonstrated that rabbits administered with the prototype vaccine generate antibodies that, in vitro, nautralize the HTLV-III/LAV retrovirus (associated with AIDS) and block its replication. Additional atudles In primates are currently being per-

from N.J.

Write or Call

The world's largest manufacturer of

Theophylline USP

RIGINICADINIDISCIONO



Napp Chemicals Inc.

99 MAIN ST., P.O. BOX 900, LODI, N.J. 07644 (201) 773-3900 (212) 695-5686 TELEX 134649 FAX (201) 773-2010

CALCIUM LACTATE USP

186 Wast End Ava., Somerville N.J. 08676 ● (201) 725-7373 ● Taiax: 247576 pros

GALLARD-SCHLESINGER

(545)333-5600 • Toll Free 800-845-3044 • Telex: 8862390 • TWX: 610-222-6069 • Telefax: 616-333-6626

WEST CDAST OFFICE GS C 5900 Reglerd Ave . City of Commerce. CA 90040-12131 728-7726

325 mesh, powder and direct compression grades Make Knoll your prime source. We guarantee quality, consistency, service and on-time delivery.

makes it better to run better

Knoft Fine Chemicals • £20 East 56th Street, New York, N.Y. 10022 • £212) 752-9520.

AMCONIES

Sodium Gluconate • Gluconic Acid • Glucono-Delta-Lactone • Calcium Gluconate • Copper Gluconate • Ferrous Gluconate • Magnesium Gluconate • Manganese Gluconate • Potassium Gluconate • Zinc Gluconate

- Major Domestic Supplier.
- Nationwide Distribution.
- Extensive Technical Service.

Regional Sales Offices:

New Jersey, 201-470-7700; Illinois, 312-381-9500; Georgia, 404-448-8666 Texas, 214-647-0222; California, 714-250-3260.

Technical Service Center, Connecticut, 203-445-5611.

CHEMICAL DIVISION 235 EAST 42nd STREET, NEW YORK, NY 10017.

October 20, 1986

CHEMICAL MARKETING REPORTER

AMITRIPTYLINE HCI

Cyproheptadine HCl Allopurinol



Ganes Chemicals, Inc.

Serving the Pharmaceutical Industry 1114 Avenue of the Americas

Akzo Chemie THE RELIABLE, EXPERIENCED SOURCE

GLUCONATES

MANGANESE GLUCONATE

POTASSIUM GLUCONATE

ZINC GLUCONATE

SODIUM GLUCONATE (Food Grade)

New York, N.Y. 10036 (212)391-2580

Information and Samples available on request

GLUCONAL

CALCIUM GLUCONATE

COBALT GLUCONATE

COPPER GLUCONATE

FERROUS GLUCONATE



INDUSTRIES, INC.

584 Mineole Avenue, Carle Place, N. Y 11514 MOWESTERN OFFICE William E Philips. Inc. 810 W Roosevelt Rd A-1, Wheelon, IL 60187-13121 690-2096

MAGNESIUM GLUCONATE CALCIUM d'SACCHARATE

DELIVERIES FROM STRATE WOLLT GENTERWAS HOUSE

U.S. DISTRIBUTORS.

GALLARD/SCHLESINGER

584 MINEOLA AVENUE CARLE PLACE.

TEL 1816) \$333/5800 - TOLL BREE (BOU) GRESOLINE ENRISE

TELEFAX (\$18) \$333-8428

WEST COAST CIPICE SIRC SHOPE (ICT M. SCHLEGO BREEK ENRISE
MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE
MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

MIDWERTERN DERICE WILL PRESENT CORD M. SCHLEGO BREEK ENRISE

CHEMICAL MARKET ING REPORTER





When it comes to a helping hand, some vitamin suppliers offer more than others.

There's a lot more to Takeda vitamins than vitamins. We give you people. People you can talk to, ask questions of, get answers from. All over the country, 24 hours a day.

Takeda has been growing for the past 200 years on the basis of personal, direct, reliable, responsible service to make technical innovation and product superiority helpful and profitable for customers. Takeda

We're old hands at the team approach to service. Technical service for product development or reformulation. Unremitting quality control. Personal attention to orders (and follow-through). On-time delivery. People you talk to regularly, who listen and care.

Call us today. We've got lots of hands ready to help with your vitamin

TAKEDA-FALLEK SALES A Division of Takado U.S.A., Inc.

4fi0 Park Avenue, New York, N.Y. 10022 / 800-847-4220; in N.Y. State 212-421-6950 Telefax 212-355-5243; Telex USA 421149

Hazardous Material Information Held Varying Throughout Country

incidents involving hazardous materials varies widely throughout the country, according to a report submitted to Con-

The Congressional Task Force on Toxic es studied the degree of specialed training and extent of emergency planboth the state and local levels. A survey was

The survey findings indicate that the level reparedness varies greatly, even within he same state. While most fire departments than half of the more than 20,000 firefighters represented by the reaponding departments

WEGO

Great Neck N, Y. 11021

Telex: RCA 289948 WEGO UR

Potassium Ferricyanide Potassium Ferrocyanide Sodium Ferrocyanide (Y.P.S)

Polassium Parmanganate

Sodium Hexametaphosphate Sodium Tripolyphosphate

AAKASH CHEMICALS

& DYE-STUFFS, INC.

urle ledide, ACS

Połassium łodka, USP

Ol-lodohydioxyqulnoline, USP

We can custom manufacture to your specs. Quality augrephood.

cs. Quality gyaranteed amples on request. Call or write

1701 S. First Avenue, Suite 306 Maywood, II. 60153

Contact us night or day using Tel: 312-344-4855 TWX: 910-226-0440 Cable: AAKASH

Sodium Benzoate

Methyl Salicylate

Citric Acid

Oxalic Acid

Sulfamic Acid

Sodium Hydrosulfite Sodium Thiosulfate

inositoi

respond to the scene of an incident, were reported to have far less training in contend

are expensive. To be prepared for any likely incident requires a variety of equipment to the fire or police departments have been abie

The task force, formed in July 1985, is a Energy Study Conference, the largest legisiative service organization of Congress.

ACRITAMER-THE CLEAR CUT DIFFERENCE

 FAST, DEPENDABLE SERVICE • COMPREHENSIVE TECHNICAL ASSISTANCE -FROM-

R-I-T-A Corporation, P.O. Box 556, Crystal Lake, IL 60014 FOR ALL YOUR CARBOMER NEEDS

CALL TOLL FREE 1-800-426-7759 / IN ILLINOIS CALL 1-815-455-0530

ROCHE VITAMIN C. ITS VERSATILITY GOES BEYOND CONFIGURATION.

ou can shape Roche C-90" compressible vitamin C into any configuration, from conventional white tablets to cartoon-character chewables, coated or uncoated, small tablets and large wafers. versatility goes further: C-90 will fit any formula or technology, including timerelease.

Its carrying capacity easily accepts the most potent multivitamin or multi-mineral combination. C-90 gives you stability that stretches shelf-life. More than 125 billion tablets have made Roche C-90 the standard of the industry.

For vitamin products in special markets, we offer Roche C-95," a vitamin C granulation made without using sugar, starch or preservatives. Every lot of C-90 and C-95 is performance-tested before it leaves our plant,

Smaller, high-potency multivitamin tablets with vitamin C can be produced with Roche niacinamide ascorbate, an excipient-free, directly compressible complex of ascorbic acid and niacinamide.

They're all yours from Roche. Three directly compressible vitamin C products with the quality you need and the versatility For more information, call (201) 235-8119, or write you'll love. Information Services, Roche Fine ROCHE Chemdex Chemicals, Hoffmann-La Roche, Inc., Nutley, NJ07110. WHEN IT COMES TO VITAMINS, THE EXTRAS COME FROM ROCHE.

CHEMICAL MARKETING REPORTER 25

CHEMICAL MARKETING REPORTER

NIACINAMIDE USP



Serving the Chemical Industry since 1880

N.Y. Tieline: 212/246-9660

1446 East Putnem Avenue Old Greenwich, Conn. 08670 64 Orlend Square Drive, Suite 110 Orland Perk, iL 60462 312/460-0772 901 Dova St., Suite 226 Newport Beach, CA 92660 714/476-0610

SODIUM IODIDE... POTASSIUM IODIDE

threat, but other scientists at an interna-

tional conference maintain that proof of

the toxic chemical's danger "grows and

The dispute cama during the final session

of a four-day international symposium of the world's leading dioxin reseachers and re-

flected a spiit in the scientific community

over claims that dloxins cause a range of

Dioxin, produced in chemical manufactur-

ing and waste incinerators, is one of the most

toxic substances known to man and has been

found in a wide number of industrial and

Chemical plant workers and people ilving

near dioxin-contaminated sites have biained

It for ailments ranging from severe acne and

insomnia to cancer, as hava US military vet-

erans exposed to the herbicide Agent Orange,

used in Vletnam as a jungia defollant.

tween dioxin and reported ailments.

hoid a major health risk."

medicai and psychologicai disorders.

residential contaminations.

Ajay Chemicais, Inc.

1400 industry Road - Post Office Box 127 Powder Springs, Georgia 30073-0127 Telephone 404 943-6202 or 404 943-3525

Theophylline

Diphylline

Aminophylline

8-Chlorotheophylline

MADRID, SPAIN A Partial Product List 7ACA (AMINOCEPHALOSPORANIC ACID) AMPICILLIN TRIHYYDRATE USP

ANTIBIOTICOS, S.A.

(regular and compacted) AMPICILLIN ANHYDROUS USP AMOXICILLIN TRIHYDRATEUSP (regular and compacted)

- FORM 6 AVAILABLE
- PRODUCTS CURRENTLY ON PATENT —



354 Main Street P.O. Box 639

Cable: VINCHEMUSA

In the USA address inquiries to:
HENLEY & COMPANY, INC.,
50 Chestnut Ridge Road, Montvale, New Jersey 07846 Telephone: (201) 307-0422 • Toll-free: 1 (800) 635-3558 in Canada Addres inquiries to:

HENLEY CHEMICALS LIMITED 420 Finchdene Square Scarborough, Onlario M1X 1C2 Telephone: (416) 297-0999

Dioxin-Cancer Link Dispute Grows at the Federal Level

A top government researcher says sented during the conference they said dioxin poses no major human health clearly indicated a connection. The circumstantial evidence grows as grows," said Peter C. Kahn, a Rulger Di versity researcher. "i do not see how your

Another US guvernment researcher, Pag Stehr-Green of the Federal Centers for Dis ease Contrui, called some of Mr. Shepariy conclusious "a bit premature,"

Aithough diuxin has been proven as a potent cause of caucer and other disorders in animals, numerous scientific commission as well as the US government contend the reintiuuship lias not been shown in home beings. Only in the last three years have xientific advances enabled accurate human measurement.

The guvernment also holds that because dioxins have been found in nearly all Amelcaus due to environmental pollulants, there Is no adequate test to prove Agent Orangets responsible for the veterans' complaints

But Barciay Shepard, director of the US At stake are hundreds of millions of deller Veterans Administration's Agent Orange In claims by thousands of veterans the Projects Office, told the conference the most biame Agent Orange for disabilities. recent studies have falled to show a link be-

Victnam, which was represented at the conference for the first time this year, sky He said "accumulating evidence," including some new V.A. studies, shows dioxin exage cisims massive tasting environmental day

posure does not heighten the risk of contract-Two studies disclosed at the conference, ing s rare cancer known as soft-tissue one by the Centers for Disease Control of sarcoma, and that "occupational exposure, dioxin-exposed Missouri residents and the including military service, does not appear to other by Mr. Kalın on New Jersey Vielmin veterans, showed substantially higher dious Mr. Shepard was challenged by other re- levels in the hodies of people heavily expend searchers who criticized the data he cited as than in those of people with so-called back-Insufficient and noted other studies pre- ruund" levels.

Heubach Inc. Claims **A Pigment Breakthrough**

Heubach, Inc., a Newark, N.J., pigment maker, claims to have made a because of the use of a new dust testing applibreakfhrough in inorganic plgment technology that will significantly reduce dust hazards in the production of paint, ink and plastics without requiring for-

"Chroma yellow and molybdate orange make up the highest-value pigment types of the more than 50 pigment types offered to paint, plastic and tak makers," says Dave Waldron, Heubach's business manager for these pigments.

"As of this year an estimated one-third of all lead chromale volume in the United Sistes has been replaced at a cost burden of \$1 billion to \$2 billion, which has been passed on to consumers in the last few years. By reducing inorganic plgment dusts by as much as 90 percent, the new technology may enable end users to avoid this huge cost burden," Mr. Waldron asys.

"What is remarkable about this development is that it is achieved by altering the electrostatic ebarge on a pigment's surface and does not in any way require changes in formulations in which the pigment is used," says Bili Arnheim, Heubach's vice-president r R&D, who led the scientific staff in developing the new technology.

Extensive laboratory and field tests confirmed that gloss and color strength are not affected by the low-dust trealment, the com-

pany says.

The development of the improved pig-

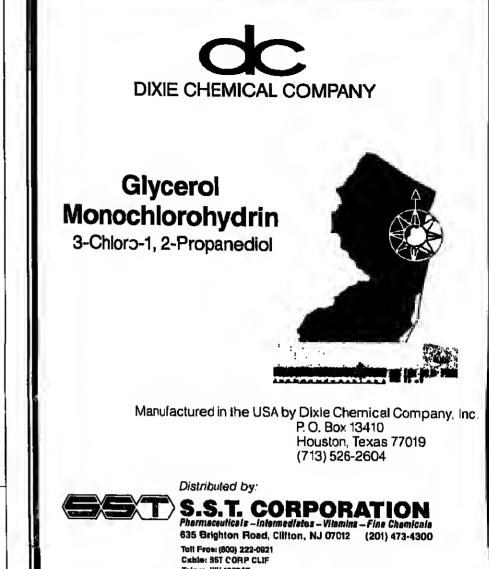
ance developed by Heubach in Germany, the

"Chrome yellow, zinc chromate, and molybdate chrome orange, thus far, are the only plaments that have undergone the new electrostat process," says Dr. Wriede "Plans call for the granull expansion of the list of commercially svailable treated products."

Eventually, the company says treated products will include the organic pigments that Heubach has been making since the company purchased the facilities and colorant line of E.I. du Pont de Nemours Co. two yesrs

"We expect the low-dust development to reverse the trend away from chromate plgments that has resulted from the need to meet OSHA dust restrictions," aays Mr. Waldron. "The trend has been toward the use of organic replacements, which have been considerably more costiy and generally less sat-

For the production of the new low-dust pigments an expansion/modernization of cubsch, Inc.'s inorganic pigment division has been completed and is on stream. The modernization included the installation of the "Electrostat" unit, completion of a 20milliou-gallon-per-day waste water treatment facility, along with a 20-percent increase in capacity for chrome yellow and molybdate or sige pigments.



ACID CHLORIDES

p-Anisoyl chloride Benzovi chloride 3-Chloropropionyl chloride Cinnamoyi chloride 3.5-Dinitrobenzoyichioride p-Nitrobenzovichloride Phenylecetylchloride Propionyl chloride Trichloroecetyichloride

(In Chemical Dynamics Corp.

P.O. BOX 395, SOUTH PLAINFIELD, N.J. 07080 Telephone: 201/753-5000 • Telex 219-884

There are more than 150 Miles Distributors to count on as your source for LTL quantities of these Miles products:

- Citric Acid
- Sodium Citrate
- Potassium Citrate
- Sodium Benzoate
- Potassium Benzoate
- Potassium Sorbate
- Ascorbic Acid

Call 1-800-348-7414 for the name and address of your nearest Miles distributor.

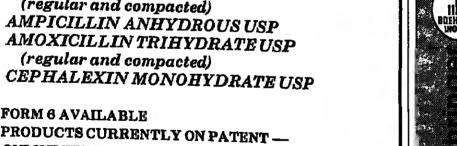
Biotech Products MILES

Your new source for: (U) KOSHER GRADE

> Prompt shipments from our Port Newark and Bayonne terminals

Wall Street Plaza, New York, NY 10005 - (212) 425-2100 ext. 380

CHEMICAL MARKETING REPORTER



ONLY INVESTIGATIONAL QUANTITIES AVAILABLE WE INVITE YOUR INQUIRIES

Please Contact Our Exclusive Sales Agent



Chatham, New Jersey, 07928

Telex: 642507 VINCHEM CAHM

CHEMICAL MARKETING REPORTER

Call Us For Your Fibre Products

fibre 44/600... a directly compressible formula for fibre tablets. Contains no salt, caffeine, added sugars or starches. Non-nutritive dietary fibre not less than 44%.

glucomannan from konjac root... water washed for encapsulation Non-nutritive dietary fibre not less than 85%.

Pharmachem Laboratories

Laboratory 130 Wesley St. S. Hackensack NJ 07806 201-343-3525 TWX:710-990-5026. Western Sales Office 2210 Wilshire Blyd Santa Monica CA 90403 818-712-9800



Celatom (Diatomaceous Earth) **Nuchar (Activated Carbon)**

J.F.HENRY CHEMICAL CO., Inc.

FOOT OF FENWICK STREET (ADJACENT TO HAYNES AVE. AT FRELINGHUYSEN AVE.) NEWARK, N. J. 07114 PHONE: (201) 242-0200



BLOSCHIM S.P.A. VIA V. PIBANI 28 MILAN (ITALY) PHONE 2 - 656 1215 6555076 TELEX: 311194 TELEFAX: 2 - 6575293

FOR EACH FINE CHEMICAL WE MANUFACTURE SOME ORIGINAL PROCESSES HAVE BEEN DEVELOPED AND PATENTED.

PLEASE ASK US FOR YOUR

CUSTOM SYNTHESIS

ATENOLOL 50.885 METROPROLOL CHENOOEOXYCHOLIC US.Pat. 4.331.507 4.316.849 FLUOCINONIDE US. Pal, 4.1SS,322 FLUNIOCLIOE **OIFLORASONE** FLUREIPROFEN 4.542,233 IBUPROFEN 34.871 US. Pal. 4.550,191 4.545.201 4.414.405 E. Pat. 72.040 (MOXISYLYTE) US. Pal. 4,338,398 URSODESOXYCHOLIC

U.S./CANADA AGENT:

REQUIREMENTS

acic 170.

60 St. Clair Avc. East, Suite 304, Toronto, Ontario M4T 1N5 Canada Tei: (416) 981-5881 Toronto Telex: 08-22138 FAX:(416) 961-0900 CHEMICAL MARKETING REPORTER

October 20, 1986

US. Pal.

4.315.845

acie

CSMA Has Established Household Products Unit

In response to the growing concern recycling efforts will substantially refine ebout the heelth and environmental issues surrounding the disposel of household weate, Chemicel Specialtles Manufacturers Association hes esteblished an Informetion resource and referral center on the proper disposal of household

CSMA President Raiph Engel says his group, which represents the major manufacturers of packaged household consumer products as well as other chemical specielty products, decided to set up the Household Products Disposal Council to respond to some confusion and concern at the community and state level about the possible dangers of household waste.

"With so much contradictory information and mlainformation being circulated, we want to get the facts out about proper disposal of household waste and what materials may need special care," says Mr. Engel. "The best protection for our environment is an aware and informed public.

Dr. Gary S. Moore, chairman of the environmental science progrem at the University of Massachusetts (Amherst) School of Public Health, and a coosultant to the newly formed council, says household products enter the environment in such small quantities and concentrations that they pose little envi-

"The diaposal of household chemicals is not a hazardous waste issue," saya Dr. Moore.
"The upgrading of landfills end improved

with the disposal of most household the

Treating household products as hazarár wastes, such as requiring diaposal at last ties licensed under the Resource Consention and Recovery Act, would confront on sumers with "the dilemma of page ennrmously exaggerated costs with no me. nutee of proper disposal or protetion groundwater," says Dr. Moore.

He says the costs of analysis and disme un collection days are \$180 per barrig \$3.20 per gallon, compared to a 14-center gallon cost in a municipal landfill, with

\$38-per-lon tipping fee.
"The environmental risk is not from & posal of household chemicals, but from by overwhelming preponderance of industria commercial and domestic refuse place unlined landfills without leachate tree ment," says Dr. Moore.

He adds that much of the problem will resolved as communities are required RCRA and new state regulations to upgniz disposal facilities

Dr. Robert M. Etter, vice presidents research and development for S.C. Johnson Sons Inc., says CSMA supports voluntary to lection days for those materials that any pose environmental hazards, such as olige ticides, used motor oil, gasoline and kerosene, some solvents and paint protect ammunition, and chemical and photo holy

ROQUETTE The World's Largest Producer of

1-800-223-5305

ROQUETTE

Executiva Office/ Menufecturing Complex 1550 Northwestern Avenue Gurnee, iL 60031 n Illinois call (312) 249-5860 Telex: (WUI) 6871679 ROQUETTE

Eestern Regional Office 433 Hackenenck Avonus Hackonsuck, NJ 07601 1-800-426-6666 In New Jorney call (201) 343-4590 Tolox: (WUI) G61463 ROQ NYK

Liquor Balide • Giusonia Aold • Madified Food and Industrial Biprolanz • Potato Protein • Destroy

TOWA CHEMICAL INDUSTRY CO., LTD. Announces a NEW RARE "SUGAR COLLECTION"

L-RHAMNOSE

D-MANNOSE . D-ARABINOSE . D-RIBOSE

AND OTHERS ALSO AVAILABLE:

CUSTOM-MADE OLIGO-SACCHARIDE BUILDING BLOCKS Galβ1 → 4GlcNAcβ1 → 2Manα1 → 6 Mans 1 - 4GICNACS 1 - 4GICNACS - AST Galβ1-4GlcNAcβ1 → 2Mana1 → 3

Information and samples available on request. Please contact

MITSUBISHI INTERNATIONAL CORP

FINE CHEMICALS DEPARTMENT 520 Madison Avenue, New York, NY 10027 Telephone: (212) 605-2406/605-2435 Telex 117 420368

HEAVY & AG CHEMICALS

Sulfur Shift Continued from Pege 5

year, enough, besed on the compeny's estimates, for less than two more years of stockpile use.

A spokesman for Cansulex, the Canadien sulfur export association, feels it is hard to be this apecific about stockpile exhaustion. He notes that different stockplles are owned by different companies and are exhausted at different rates, depending on individual producer plans.

He saya demand for Canadlan sulfur In coming years is also a matter of dehate, being influenced by a number of fectors. Phosphoric acid, for fertilizer production, is the product'a main end use, and the future of this market is uncertain, given continued world grain oversupply. US phosphate production is down considerably this year and continued increases in world phosphate output are questionable, be feels.

Other question marks involve potential output in USSR, Iran and Iraq. Both Iran and Iraq, secording to one observer, bave the potential to produce up to one million tons per year of elemental sulfur, although actual output is at present considerably lower. More Importantly, sour gas wells in the Astrachen region of USSR are expected to have a poten-tial nameplate capacity of 3.7 million tons per year by the time they are on stream in

OUTPUT LEVELS

Actual output levela for these wells remain lo be seen. AER, for instance, sees output from these wells as closer to 1.2 or 1.3 million tonsper year, the limiting factor being variailons is the wells' bydrogen sulfide content. Moreover, says AER, much of this will likely be consumed internally in phosphoric acid

In the meantline, efforts are being made in Canada to refine basepsd sulfur up to standard market quality. Most notable of these plans is Canterra Energy's 9,000 metric ton per month decontamination plant slated for March start-up in Ram River, Alberta.

faitially, Canterra will be cicaning its own Ram River stockpile for sale on the world market. It eventually intends to offer its aer-vice to other sulfur producers, most likely on a tolling basis.

Other concerns are plnnning similar cleanup facilities, but for the most part do not own sulfur stockpiles and are looking instead to buy contaminated product and sell the purlfied material on the opan market. One source feels Canadian sulfur producers may be wnry of selling basepad sulfur only to find it competing with their own recovered product.

Prices for Canadian sulfur nre aomowant reaker in the second half of the year. First half export contracts, SRy sources, were nominally at about \$135 por ton, with some material actually moving as high es the low-\$140-per-ton-range. This half, however, contracts are closer to \$130 per ton, with little material being sold at higher prices. The de-cline is attributable mainly to a softer world

Observars expect prices to remain at these levels, and perhaps even slip e few dollars, until the end of the year. Through 1987, how-

CHLOR-CAUSTIC OUTPUT

JULY: SHORT TONS/DAY JULY JUNE JULY 185 28,840 28,584 29,341 24,505 23,967 25,092 Liquid produced Liquid shipped 25,092 14,414 14,885 14,504 CAUSTIC SODA Uquid produced* 28,700 29,577 30,838 Sold produced 594 590 579 CAPACITY 38,239 38,142 37,753 OPERATING RATE 88,0% 55.1% 84.0%

drawdown of 2.5 to 2.9 million tons per ever, a alow but steady price increase la expected as the market anticipates stock depletion. Some market followers expect sharp increases once full depletion of Canadian stockpiles is evident. Prices in 1988 could break \$200 per ten

break \$200 per ton, saya one source. Canadian exports to the US are down considerably this year. Through August, according to Bureau of Census, 399,000 tons of Canaan sulfur have been exported to the US, as

PRICES TRENDLINES

WEEK ENDING OCT. 17, 1986

CHANGES/UP

CHANGES/DOWN

HEAVY & AGINDEX

The Heavy & Ag Chemicals Index reflects the prices of 18 representetive materiels in this sector end the quentity

or court produced in 1905.	
Oct. 17, 1888	113.88
Oct. 10, 1886	113.88
Sept. 18, 1886	113.69
Oct. 18, 1885	113.89

Chemical Prices Start on Page 36

compared to over one million lons during the same period last year. Marketers attribute the decline to the idling of Northwest phosphate plants by J.R. Simplot and Beker Industries and to increased competition from US recovered sulfur produced in the Wyoming overthrust region. In addition, Canadinn material is being backed out of the US by Gulf Coast sulfur looking for a home as a result of decreased sales to fertilizer makers.

Recovered sulfur production in the US is up sharply this year. Bureau of Minea shows production up 20 percent through August, to 2.3 million tons. One recovered sulfur producer attributes the increase to increased refining of high sulfur crudea. Interestingly, despite increased output and decreased do-inestic demand, aulfur prices in the Gulf have been fairly stable this year, in the \$115-to \$120-per-metric-ton range, f.o.b. refinary. Some weakening ia beginning to be expericnced, howaver.

Increased recovered sulfur production is hnving its impact on Fraach aulfur produc-tion. Through August, Frasch sulfur production is down over 15 percent, to 2.8 million tons. Since Frasch aufur liats at \$147.50 per metric ton f.o.b. Tampa, with all discounts, recovered sulfur la usually tha product of choice and most consumers usa Frasch product os a swing sourca.

Exports of both Frasch and racovared sulfur are higher this year, aithough recovered dominates hera as well. Through August, exports are up 25 percent, to 1.1 million tons. With demand by the US fertilizer industry off, the export merket is the only alternative for recovered aulfur producers who, generally, do not have considerable inventory capacity. In addition, saya one producar, in-quirlea from overseas consumers have been

fairly prevalent this year.

Asslating exports from the Gulf area is a Galveston, Tex., export facility opened by Burza Intarnationel in Januery. A apokesman says tha facility is expected to move 200,000 tons of sulfur this year, mainly from refinery producers. This la equal to about half the anticipated export increase this year. Until this year, he says, there was only one export facility on the Guif, and that handled primarily Frasch aulfur.

BASES & SALTS

CAUSTIC SODA — Industry sources are raporting that the October 1 caustic soda price increase amounced by producers is holding with reesonable success. Most say poreases between \$5 and \$15 per ton ere

THE CLEAR CHOICE IS KAISER CHEMICALS.

Consistent Quality Means Consistent Value

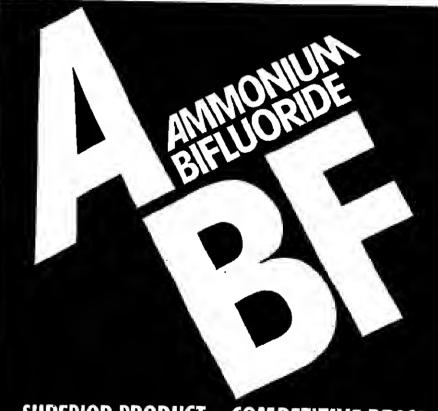
Kaiser Chemicals is basic in raw materials. This allows us to maintain our high standards of quality throughout the manufacturing process and deliver the best value in sodium aluminate.

Our computer-monitored, 1,000-ton batches are by far the largest in the industry. This assures the most consistent sodium aluminate on the market.

Batch to batch, car to car. Kaiser Chemicals' manufacturing efficiency and 25 years of experience mean quality, consistency and competitive prices on all three grades of our sodium aluminate. Call the proven singlesource supplier at (312) 841-8420, or write Kaiser Chemicals, 30100 Chagrin Boulevard, Cleveland.

Ohio 44124.

/KSAM95/F1/F2 CO J #47 M FRICON E 254 The Alumina Specialists



SUPERIOR PRODUCT - COMPETITIVE PRICE FROM THE WORLDS LARGEST PRODUCER

YOU COMPARE: FREE FLOWING WHITE FLAKES/NON-CAKING OVER LONG PERIODS/HIGH PURITY/LOW IRON/LOW SULPHUR/ SUITABLE FOR ANY APPLICATION/AVAILABLE IN ANY QUANTITY/ IMMEDIATE AVAILABILITY FROM WAREHOUSES ALL OVER THE UNITED STATES.

NOW, GIVE US A CALL: 3652525 (6-1870) (1-1665) 6-17 (6-18) 47565

IX IXAU CHEMIE

October 20, 1986

being accepted by customars, with \$10 par ton being both the average and the most com-

Pockets of dissension exist, however. One distributor notes that the Philadelphia market is in a state of some disarray due to a shipment of distressed material. This acurce seys the product, amounting to between two and three thousand tons, was inadvertently put in tanks without heating capacity and la n danger of freezing for tha-winter. Theawner's desire to sell it bas at least postponed the increase's succesa in that area, haaays.

Also, the Northeast market is said to be resistant to the increase as import material ls keeptng prices down.

Guif Cosst and Southeast prices seem to have responded well, with the \$10 per ton

average increase considered by most to be mplemanted. This puts caustic soda selling prices in that region in the \$90-to-\$100-peron range for many larger buyers. Some, bowever, are protected by contracts until the

ALUMINUM SULFATE — General Alum & Chemical Corporationsays it is increasing its price for liquid a lum by \$8 per dry ton. The increasa la effectiva November 1 or as contracts allow and is for material produced at the company's India napolis, Ind., and Toledo,

The announcement lollows similar increases by General Chemicsl and Stauffer Chamical (CMR, 10/13/86, pg. 31).

METALS & MINERALS

NICKEL - Falconridge Limited says that

in response to continuing low prices and world oversupply for nickel, it is scheduling production shutdowns for December 24 through January 4, 1987, and fur July and

reached its lowest level since the 1930's, in constant 1986 dollars. Current price is allout \$1.67 per pound. As recently as 1980, the price wsa \$4.30 per pound.

The spokesman says that because of the complexities involved, opening a mine usually occurs about 10 years ofter the initial deciaion. During the lete 1980's and through the 1970's, he says, nickel was n very profltable Item to be involved in, and companies were making money "hand over fist."

Conaequently, several other companies worldwide decided to start nickel businesses. including many developing third-world coun-

August 1987. A spokesman explains that pricing has

cal sales in cosmetles and tolldries, plans

Basic Chemicals... **Innovative Magnesium Oxide Products and** Services for the **Chemical Processing** Industry

PRODUCTS	INDUSTRY	APPLICATION
MAGOX* 98 MAGOX* 95 MAGOX* 90 MAGOX* Sturry	Magneslum Compounds	Used to make Epsom Salt, nitrates, aulifates, chlorides, and other salts. Also used to the production of magnesium overbased sulfonetes.
OxyMege MAGOX® 98 DB-87	Building Msterials	MgO is the principal ingredent in the production of oxychioxids end oxysultate caments which are used in decking, paneling and tire retardant costings. Deed burned magnesite is etso a major ingredien in various fest satting caments.
MAGOX [®] Sugar Grada MAGOX [®] 98 MAGOX [®] Sluny	Sugar Refining	Nautrellization of raw cane and beet sugar juices reduces evaporetor scaling.
MAGOX* 98 MAGOX* 95 MAGOX* 90 MAGOX* Slurry	Wasta Water Neutrelization	MgO is a safer,more cost-affective actd neutralizing agent than other bases.
MAGOX* 98 MAGOX* 95 MAGOX* Slurry	Pulp and Paper	Used in the production of magnesium bisuifite pulping liquors.
MAGOX* 98 MAGOX1 90	Drilling Muds	Used as a buffer, corrosion inhibitor and viscosity control ingredient.
MAGOX ¹ 98 MAGOX ² 95	Rayon	To make Mg acetate which is used in cellulose acetats production.
MAGOX [‡] 98 MAGOX [‡] 95 MAGOX [‡] 90	Water Treatment	Silica and heavy metal removal.
MAGOX [®] Ag Grede MAGOX [®] 98 MAGOX [®] Slurry	Fertilizer	Supplementation in Mg deficient solis for such crops as citrus, tobacco, hay, potatoes, corn, vegetables, fruits and nuts.
MAGOX 98HRF MAGOX ³ Premium Grede	Neoprene and othaz Elastomere	Highly reactive MgO for use in hoses, belts, gaskets and other automotive and mechanical products.
MAGOX ² 98 MAGOX ³ 90 MAGOX ² 95 MAGNESITE 33	Miscellaneous	Magnesia is used as an adsorbent, floculant, fillar, to make phenotic resins to precipitate heavy metals from plant effluent and for ineutation. Also used in the production of oil additives, and anti-corrosive coatings.

Basic Chemicala offars more grades of magnesium oxide than any other supplier. To halp obtain maximum, coat-effactiva MgO parformanca in your specific chemical processing application...contact the professionals at Basic Chamicala.

Basic Chemicals Combuation Enginearing, Inc. 7887 Hub Parkwey Clevaland, Ohlo 44125 Phona: 1-800-BASIC US or 216-524-9000

GAF Not Buying

Continued from Page 9

total \$29.1 million, the highest fathe corporation's history

As the largest competitor to BASE Con ration in the acetylene chemical busine GAF has far percent of its acetylenic the

centicals and engineering plastics, he mig GAF has the broadest line of surfactable the lossiness, he said, enhanced recently the purchase of the surfaciant business Borg-Warner Curporation in South Carolin

In the roofing husiness, another GAF se. ntive said, the company has been raising a research and development budget 20 percen per year over the past five years and and my a comparable increase this year. GAFE also the hest integrated of rooling material producers and has the largest share of he

residential market, it was slated. Next year, tiAF will introduce a light weight fonduated shingle in a marketing totals about \$100 million and has been puring 20 percent per year, the GAF execute.

Chemical Test Detects Arsonish

A technique developed at the Comerce Department's National Burend Standards (NBS) shows promise in the tecting arson by chemically analyzig soot samples for hy-products of themterials used to start the fires.

In experiments conducted at the burse) Gaithersburg, Md., facility, NBS researches have found that the accelerants used by many arsonists to start fires - hydrocate based liquids such as gasoline, kerosene, at paint thinner — produce specific combails "daughter products" that become part of its

Known as polycyclic sromatic hydren bons (PAH's), these products can be remove by solvent extraction from sooty depos sampled at the scene of a lire. NBS scients use gas chromatography (GC) to delect presence of PAII's.

The analytical test is "a very simples that could be easily used as a forest device," says Stephen N. Chesler, an All chemist and chief scientist for the project? ndds, however, that the method is experien tal at this point and needs further investor

SODT ANALYSIS

Mr. Chesler's research began seem years ago at the orging of the Law Enter ment Standards Laboratory, a brand! NRS. The Initial goal was simply to stalk sout for the presence of gasoline and the accelerants. Farly tests using the GC to nique were manceessful.

The next slep was to use the same access ants to harn household majorials no us woul, synthetic fibers (rugs), and plate

inder controlled laboratory conditions.
It part analysis of the soot from thesis
Mr. Chester and his colleagues notices. l'Alls were showing up in easily detect quantities. When the sarna household me uls were hurned without using access only minimal amounts of PAHs worep - "not enough to intorfere with the lest,"

The technique appeared to be worth the lab, but the question remained Her would it perform in an actual fire? To out, Mr. Chesler enlisted help in galant. on-location aoot samples.

out, Mr. Chesler enlisted new conlocation and samples.

He aaked forensic chemists at its introductions that have criticized the JNC was evidently taken its toll," and some considerable with a sevidently taken its toll," and some criticized the JNC was evidently taken its toll, and some criticized the JNC

Wharton Panel Finds Trend To High-Cost Antihypertensives

ics first when treating high blood pressure may be helping to "break the bank" on prescription costs, according to experisat a medical symposium sponsored in Washington by the Leonard Davis Institute of Health Economics at the Wharton School.

Presenters described research findings suggesting a trend toward newer and sub-stantially more expensive antihypertensive agents that runs counter to national coat control initiatives for beaith care.

Despite the locreased cost of the newer medicines, the researchers noted, there is no evidence of added clinical benefit for most patients with mild to moderate hypertension.

A nationwide Gailup aurvey of physicisms released at the symposium reports more than two-thirds of practicing doctora have changed their treatment patterns for their hypertensive patients in the last few years.

NEWER AND COSTLIER
Of those making changes, eight out of ten
physicians changed the type of medication hey prescribe. Almost three-quarters of whom these revesled a distinct trend to newer and costiler prescriptions.

One of the newest and most expensive sntihyperiensive agents is more than four timea as expensive as the leading diuretic.

Dr. William Stason, of the Harvard School of Public Health and co-moderator of the symposium, utilized national data to estimate the potential impact of these new theraples for patients with mild to moderate hypertension now receiving diuretic therapy.

"A wholesale shift to the newer thersples could add \$1 billion or more annually to national costs for high blood pressure treatment,"aays Dr. Stason.

Symposium attendees also heard the findinga of a Vanderbilt study of Medicald patlents that auggested the emergence of a trend toward the newer therapies.

In 1982 and 1983 the atudies showed clear adherence to the traditional stepped-care guidelines in the initial treatment of mild to moderate hypertension recommended by the oint national committee on detection, evalustion and treatment of high blood pressure.

However, more recent data through 1986 abowed a four-fold increase in the use of two new costlier categories of drugs—anglotensin coovarting enzyme (ACE) inhibitors and calcium channel blockers.

FDA APPROVAL The latter category is still pending FDA approval as therapy for hypertension, but hat approval la expected shortly, according industry sources.

In the same period the number of Medicaid prescriptions for diuretics decreased gradu-ally. These findings were ectional in the allup survey, where algulficant physician interest in beavily promoted newar products, including beta blockera, was expreased.

In 1977, tha first joint national committee

report oo detection, cvoluation and treatment of high blood pressure was issued. It was reaffirmed and modified in 1980 and agaioin 1984.

However, the guidelines have bean perceived by aome physiciana as "cookbook medicine" that does not recognize the full importance of a case-by-case review and dator-minetics for cook by mination for each patient. The Gallup aurvay uncovered diaenchantment with the JNC stepped-care" approach as the most commonly reported non-drug related cause for

changing ireatment patteros among doctora.

The visibility generated by new product iniroductions that have criticized the JNC

don to the findings.
But general guidelines as aat forth in the

Physicians who fail to consider diuret-Physicians when treating high blood pres-Physicians who fail to consider diuret-Physicians who fail to consider diuret-Physician diuret-Physician diuret-Physicia atudies, patient compliance, safety, and now clearly in cost-efficiency, emphasized Dr. Gifford, who belped establish the national high blood pressure education program which is part of the Netional Heart, Lung & Blood Institute (NHLBI).

There are an aatlmated 58 million Amarlcans with high blood pressura, almost 80 percent of whom bava mild to moderate hyper-

Ita treatment accounts for more office vis-Its and prescriptions than any other allment in the country. The direct costs for high blood presaure care in the US are estimated to be lo

excess of \$10 billion yearly.

"The sheer magnitude of care dispensed for the control of high blood pressure necessitates." tates it be done with careful consideration to cost," remarked symposium co-moderator Dr. Mark Pauly, executive director of the Leonard Davis Institute of Health Economics at the Wharton School at the University of Pennsylvania

"Placing great emphesis on subjectiva patient observations regarding 'quality of life' might cause an upward cost trend," cautiona Dr. Pauly. "Quality of life can also be measured by the smount of money left in a patlent's pocket."

Fully 88 percent of physicians polled clslmed that their patients' ability to pay for their medication was an important factor in

NO REIMBURSEMENT

Also important, physicians aurveyed generally reported their patients pay for their medication without reimbursement. One in four patients surveyed sald that paying for high blood pressure medication was "somewhat" or "very much" of a problem.

"Only the small minority of patients whose hypertension cannot be successfully controlled or who are bothered by side effects need to be shifted through a progression of costlier therapautic alternatives," offered symposium co-moderator Dr. William Stason, of the Harvard School of Public Health.

Despite the trend toward more expensive HBP drugs, physicians appear convinced of their increased sensitivity to the Issue of coat: three in four doctors believe physicians are more sensitive to the cost of health treatment

than they were in the paat.
"Considering a 58 percent majority of patients are sufficiently satute to realize thera ls no direct relationship between how much a drug costs and bow well it works, physician sensitivity to cost may be more than just efficient practice of medicine, it may also be prudent practice management to retain a atrong doctor-patient raiationship," Dr. Pauly concludas

Need a **Quick Study? Chemical Profiles**





ESSEX INDUSTRIAL CHEMICALS INC.

ESSEX CHEMICAL CORPORATION

1401 BROAD STREET, CLIFTON, NEW JERSEY 07015 TELEPHONE: (201) 773-6300

LONZA

Martinal®-Alumina **Trihydrate**

Superior flame retardant for non-halogenated rubber and plastic compounds

Lonza inc., 22-10 Routa 208, Fair Lawn, NJ 07410 · 201 794-2400 Technical Sarvica: 800 526-7850 · Customer Service: 800 631-3647

AmeriBrom, Inc.

THE WORLD'S MOST INTEGRATED PRODUCER OF BROMINE PRODUCTS MEMBER OF THE DEAD SEA BROMINE GROUP

1250 BROADWAY, NEW YORK, NEW YORK 10001 TELEPHONE: (212) 563-4600 TELEX: RCA 220531

CHEMICAL MARKETING REPORTER

DISCOVERED:

A MAJOR NORTH AMERICAN SOURCE OF HYDROGEN PEROXIDE.

The new OXYCHEM hydrogen peroxide plant is opening

It's a multi-million dollar, state-of-the-art facility. And it's strategically located to assure fast, reliable delivery in our fleet of tank trucks or tank cars.

So if you want a top-quality product, backed by the resources of ATOCHEM (\$2 billion plus in sales this year), call toll-free 800-932-0420. In New Jersey, call (201) 652-8575. OXYCHEM is a joint venture of ATOCHEM and L'Air Liquide. ATOCHEM INC., P.O. Box 607, Glen Rock, New Jersey 07452.

ATOCHEM INC. elf aquilaine group

E(y(c))

All-Natural Chilean SODIUM NITRATE from the world's most experienced supplier.



Chilean Nitrate Sales Corporation 109 East Main Street, Norfolk, VA 23510 Phone: 804-622-9600

NOW AVAILABLE

From Texas United Chemical Corp. A New Plant At Lake Charles, La. For The Production Of

GRANULAR 94-97% **CALCIUM CHLORIDE**

For more information, please call Joe Incorvia Business Manager - Calcium Chloride



TEXAS UNITED CHEMICAL CORP.

20001 West Loop South, Stitle 990 • Houston, Texas 77027 • (713) 877-2648

CHEMICAL MARKETING REPORTER

Nitrogen Dumping Case **Pursued by Trade Agency**

International Trade Commission says percent share of the US market has there is a reasonable indication that the nitrogen fertilizer industry in the US is being injured by imports of area from three Eastern Bloc nations that are atlegedly being sold at less than fair value.

The commission's 5-0 vote in favor of conthruing the anti-dumplug investigation cause six weeks after a coalition of domestic nitrogen producers filed the complaint against East Germany, Romanda and the Soviet

The coalition's petition alleges that area Imports from these non-market economies are being dumped in the US, causing price depression which is "severely injuring" the domestle industry (See CMR, 7/21/86, pg. 3).

Urea imports from the Eastern Blue have risen steadily since 1982, when they had a 2

non-market economy imports accorded in percent of the market Another supply more imports has pushed the markets figure up to 10 percent, domestic profes

In 1996, the three exporters have sing orea to the TS at prices as low as Mig-short tout ob 167 percent to 279 page below its fair market value, the US own. mes allege

The petition was filed by Agrico Chemic Company, American Cyanomid Comment Industries, Inc., Farmland Industries is First Mississippi Corp., Mississippi Chemic Corn. Terra Chemicals International W.R. Grace & Co.

A spokesman says the domestic lober sustained heavy losses in the first quarter



- CUPROUS CHLORIDE
- **CUPROUS IODIDE**
- CUPRIC CHLORIDE

*Warehouses located

Giulini

Corporation

1250 BROADWAY NEW YORK, N.Y. 10001 212-563-4615 TELEX: RCA 220531

200 mg grane grane and a constant of the consequent and another the

Houston, Taxas 710 (713) 880.99 ITT TWX: 494-92

CALABRIAN CHEMICALS COM

Giulini Corporation

Ammontum Aluminum Sulfate: quantiliti and powder avallablein feeding all, FGC mit U.S.P. grades Usual in the dyeing, photographic and foort industrins.

Potassium Aluminum Sulfate: granular and powder available in Technical, FCC and U.S.P. grades Usud in the lanning, pholographic and food industries.

sphorical silicnie-phosphate make used for polable water treatment

Sodium Aluminala: dry malerial available in 37/39% 53/55%. Usad in water purification and as a sat accelerator in the

concrete industry. Aluminum Sulfate:

granular and powdar avallable Tachnical, FCC and U.S.P. gree Used in water purification, pharmaceulical industries.

COATINGS & PLASTICS

Polystyrene Price Increase Prompted by Move in Styrene

Responding to a new round of styrenc one producer reports, whittling the market down by at least 20 million pounds, so far. price increases for November, al least one major polystyrene producer has responded in kind, in a bid to pass along higher raw material costs.

Styrene makers, strained by extremely light supplies and encouraged by a strong polystyrene market, effected a series of price increases through September and October, raising monomer costs a total of 5 to 6 cents per pound.

Producers of polymer, facing sustained high demand and higher monomer costs, cffeeled Increases of their own this October. raising resin costs by 3 cents per pound Currently, demand for polystyrene is better than It has been for some time.

Several major styrene producers are now proposing price increases to be effective November 1. So far, American Petrofina Inc., a subsidiary of Cosden Oll & Chemical Company, a major producer of polystyrene, has announced that it will be countering with a 3-cent-per-pound polymer increase.

Other producers have not yet announced any further price adjustments. So far, they bave realized all of the Octuber I price in

Supply and demand are said to be in balance, with operating rates close to capacity Although the Oclober increase succeeded, i

is still not enough, one producer cumplains. Currently, reflecting the October price increase, general purpose grades of polystyrene are selling for between 34 and 36 cents per pound; high impact grades sell for between 37 cents per pound and 38 cents per

Current demand forecasts for the year rall for the size of the total US market to grow by 6 percent to 9 percent this year.

Capacity utilization rates have increased since last month, when they were said to be between 90 percent and 95 percent of nameplate Producers say the figure is now bctween 94 and 96 percent of the total.

PRIME PIGMENTS

CHROME PIGMENTS - Producers of chrome yellow and green and in olyhdate ornge pigments complain that the market is still weak, with current dumestic capacity exceeding demand by at least 20 million

Although some describe plantle colorant applications as a "new channel" for the morkel, which may provide some relief, the spokesman for a major producer dismisses this as "an eloboration on a ininor theme." Demand for the lead-based pigments in the inks and coatings segment, the moinstay of the market for years, has been slowly disappearing as a result of environmental pressures; demand has been slipping at the rate of 10 percent per year for the past four years,

Imports have devastated domestic pricing over the past few years, producers report. Allhough with a weaker dollar, they no longer play the role they once did in the US, they have left a real mark on selling prices. As one producer explains, the US market, bad as it is, is slill the largest market for the piguients, and "everyone wants their small

PRICES TRENDLINES

WEEK ENDING OCT, 17, 1986

CHANGES/UP

CHANGES/DOWN

COATINGS INDEX

The Coatings & Plastics Indax raflects the prices of 13 raprasantaliva materials In this sector and the quantity of each

Chemical Prices Star	t on Page 36
Oct. 18, 1965	306.4
Sapt. 19, 1966	306,4
Oct. 10, 1966	306.4
Oct. 17, 1966	306.4
produced in 1905.	

shore." Wild discounting is reflected in the wide range of selling prices for chronic pig-ments. Chronic yellow, listed from \$1.09 to \$1.33 per pound, is help sold to some large volume customers for as little as 65c. per pound, one producer reports, while molybilnte orange, listed at \$1.96 to \$2.35 per pound, is going for as low as 95c. per pound.

The overcapacity problem in the US infrrors a worldwide overcapocity problem. This year, domestic demand for the pigments is expected to fall to between 50 and 60 million

PLASTIC MATERIALS

EPOXY RESINS — Reighhold Chemicals Inc. will be rolsing selling prices for its "Epotuf" epoxy resin products, effective October 16, the firm announced last week. Prices for diluents and hardeners will not be

New prices for "Epotuf" liquid epoxies will be 4e-per-pound higher than they are now, while those for solids will be 3c. per pound higher. Costs for adultion grades will

be between 2.5c. per pound and 3c. per pound higher, depending on grade. Reichhold, the fourth largest producer of cpoxy resins in the US, is the fourth to announce epoxy price increases this quarter. Shell Chemical Company, Dow Chemical

Continued on Page 35

COATING & PIGMENT EXPORTS: AUGUST

BUREAU OF CENSUS FIGURES ON THE KEY PAINT MATERIALS.

	AUGL	181 TEL	JULY	188
Antimens	QUANTITY	SVALUE	QUANTITY	\$ VALUE
Antimony compounds (NSPF)	82,280	105,450	135,972	224,154
Carbon black, including thermal	8,787,844	4,505,626	10,089,728	6.144.962
Carried Pigments 11)		588,788	656.880	677,805
Chromium pigments 1) the. Colors, lakae and torrara Cyclic);	879,444	200,100		0111000
Concentrated		ma 4 400	000 005	. AGE 409
Yellow that dispersions the Rad. the	228,844	704,192	233,225	985,108
Kad.	141,788	384,872	25,275	221,146
Rad. Iba. Violet	84,901	938,632	50,116	545,142
Violet	28,662	378,293	32,023	487,648
Blue lbe.	371,956	1,662,388	878,416	1,642,865
NSPF	826,859	8,286,840	792,140	8,489,270
repared paint and vernish dryers		874,670	498,923	507.687
repared solvenie & thinners	868,086		1.728,529	1,559,514
WIDTINGS	4,026,748	2,668,973		2.537.666
SOLI OVINA	8,874,996	2,507,724	6,825,602	
	67,863	11,358	:8,712	. 1,725
	602,862	170,525	656,602	188,194
other phiheigles libe. libe.	34,405,834	3,642,687	15,013,489	5,938,742
incord. the	19,481,400	13,250,014	13,900,116	9,290,280
lite line in the line line line line line line line lin	63,635	48,028	84.264	64,755
Trummin Oxida			587,333	329,693
	571,214	426,224		
II) includes missions		1. A		

The two leading names in polyethers:

Formrez and Formrez.

If you need specialty oxylates or polyethers for urethanes, here are a few reasons to use Formrez®and Fomrez® polyethers:

• Over 25 years of proven performance.

• Applications include urethane foams, prepolymers, coatings, elastomers, adhesives, caulks and sealants.

• Choose from diols, triols, tetrols and hexols terminated with secondary or primary hydroxyl groups.

• Specialty oxylates for synthesizing acrylated reactive diluents and urethane crosslinkers.

• Modifiers for melamine and epoxy cured systems.

• We can custom produce specialty oxylates, in quantities from drums to tankwagons.

Organics Division.

For more information, contact: Witco Corporation, Organics Division, Dept. U, 2701 Lake Street, Melrose Park, IL 60160-3041.

Witco

Custom Chemical Works in Texas

RRODUCTION s.s. reactors
CALCININGS walk in ovens
DRUMMING fast fill facilities BLENDING....high shear mixing STORAGE..... tanks and warehouses TRANSPORTATION..... rail siding weigh scales s.s. tank trucks LPG tank trucks

ARCHEM COMPANY

Write for technical data P. O. BOX 34507 HOUSTON, TEXAS 77034 713-481-4242

DYESTUFFS - Acid, Basic, Direct, Fast Bases, Napthois, Reactive, Solvent

INTERMEDIATES - Resist Salt, Metanille Acld, 5-Sulfo Anthranllic Acld, Vinyl Sulfone Ester (Acetanllide Base), R. Salt, G. Salt, Gamma Acid.



26 Broadway, Sulte 1620, New York, N.Y. 10004 TEL: 212-786-0106 TELEFAX: 212-425-2546 TELEX: 661 856 HARBON UW

LONZA

Compalox®-Activated **Alumina**

■ Special dessicant and catalyst adsorbent in hydrogen peroxide manufacture

Lonza Inc., 22-10 Route 208, Fair Lawn, NJ 07410 · 201 794-2400 Technical Service: 800 526-7850 · Customer Service: 800 631-3647 CHEMICAL MARKETING REPORTER 38

oversupply and strengthen prices, otherwise the prices will remain soft." "HST", "T50X" and "T52X" film will be 7 An importer cites sates from early 1986 aa behindthe large domestic Inventories. "A lot percent higher, while selling prices for all guages of its PVDC-coated, "BX31X" and "BX323" films will be 5 percent, and 3 perof buying took place about nine months ago. but business has been steady; no more than cent higher, respectively. Tabs for its the regular offtake has left inventories unde-"B50X" 50-guage film will be raised by 10 percent, and those for its 75 to i20-guage "B50X" film by 7 percent. The Chinese ginger oil has been affected by what one source refers to as "Internal con-

Borden Chemical Company has also annonneed price increases of 7 percent and 10 percent on ils general purpoae and slip grades of "Propanite" film, effective

E. B. Knight, Inc. P.O. Box 28, Toms River, New Jersey 08753

QUATERNARY AMMONIUM **BROMIDES**

INVENTORY STOCK - DEPENDABILITY - ATTRACTIVE PRICING

BROMINE INTERMEDIATES INCLUDING ALKYL BROMIDES, AROMATIC BROMIDES. HYDROBROMIC ACIDS AND SALTS



CHEMICAL North Haven, CT. 06473

B00-652-3456

we are ready to meet your requirements. Contact us now.

Systematic Name

1-Bromopentane -Bromohe plane Bromooctane -Bromodod scana -Bromotridecens 1-Bromotetradecsne 1-Bromohexadecane -Bromoocledecane -Bromoeicosans

. Take your pick for peak performance from the highest quality linear 1-bromoalkanes. You

will not find battar intermsdiatas no mattar how far you range. From kitogram to truckload.

TWX 710-465-2434, TLX 99-4487

IS ALL IT COSTS

FOR FIFTY-TWO ISSUES

CHEMICAL MARKETING REPORTER

OPD CHEMICAL BUYERS DIRECTORY

Mell to: CHEMICAL MARKETING REPORTER, Circulation Dept., 100 Church St., N.Y., N.Y. 10007-2694

(D) D Wholesale/Dietributora/Import-Export/Trading (C) D Transportation/Communications/Public Utilities

AND OUR ANNUAL

Heptyl Bromlde Octyl Bromide Decyl Bromids Undecyl Bromld: **Dodseyl Bromids** Tetradecyl Bromids

Ocatadecyl Bromide

ventories and no demand to relieve it. An essential oils broker concurs: "The sales in 1985 are still in atock and its driving offers even lower." Another industry source agrees, citing the price softening as an indication of oversupply: "The prices were very high but have been coming down in line with

Cassia oil imports are dwindling as

supplies become increasingly available

and consumption declines. Total US im-

orts in 1984 were 189,207 pounds. In

1985 imports swelled to 554.191 pounds

end the 1986 cassia oil imports through

August totalled 296,971 pounds, with de-

mand expected to slacken further.

Prices have weakened along with the

import decline, dropping last week from

\$48 to \$54 per kilo cost and freight. New

1985 was a very favorable year for produc-

ers and "many Chinese got involved in sperulation and brokering. It has been a very prof-

itable business for them," says an essential

olls importer. The consequence of such in-

volvement was a substantial buildup of in-

York to below \$40 per kilo, same basis.

According to the essential nils importer, the Chinese didn't anticipate the decline in buyer Interest: "Though the interest in cassia oil in 1985 was to have a short lifespan, they continued to generate the material." Prices came down from a 1984 high of \$75 to \$80 per kilo and the Chinese producers felt the subsequent increase in US sales was due to the price decrease.

Another oils broker maintalus that prices won't soften any further and that the present weakness is due to less than standard material being offered from Hong\Kong. Yet an importer considers it to be of the same quaiity as the material coming from mainland Chino, If not from the same producers.

CASSIA USE CHANGING

Sources report that demand is falling beeause the uses for cassia oil have been changing. "The main uses for eassia oil are in soil drinks and baked goods," says an iminstry source. "It is possible to refine natural henzaldehyde from the elmamic acld found in cassla oil. Ellher the buyers who use the oil for Ilils purpose arc shying away from natural benzaldehyde altugether, or its techny obtained from onother Intermediate." Natural benzaldehyde imparts the desired littler almond flavor bul is very expensive at around \$100 per klin.

The reason cassia all imports surged in 1985 was due in the lack of availability of true hiller almond oll. Some hitter almond oil that hod been imported to the US was found to be toluene based, or synthetic heazable-hyde disguised on bitter almost oil. As a resull, those buyers who wished in insure that their products were naturally finvisced turned to cassia oil. "The need to be sure that

of each supplied in 1985. Oct. 17, 1986 Oct. 10, 1986

Sept. 12, 1986. Oct. 11, 1985 .

Chemical Prices Start on Page 3

bitter ainmond all will increase the "Buyers will still have to pay a high pix the natural material. The question is material they'll selthron."

GINGISH OIL. — Spot prices for and Indian gluger all have fallen in the two weeks from \$25 per pound to \$155 pound. I'rines have softened dae lower ply from both paints of origin, help

one's product is not compromised, "says one source, "sent people to lic cassia oil even is still evident in Indio and in Inventorial

SEED & SPICE IMPORTS: JULY A SELECTION OF STATISTICS FROM THE BUREAU OF CENSUS.

	OIM LLIF DO	311210 0	
	JULY	JUNE	1986 TODATE
raraway seed	***	446,386	4.723.19/
araway seedib.	822,110	940,400	2,401,505
elery seed	326,362	178,824	2,401,500
innemon, unground	192,402	78,131	1,447,018
loves		122,144	1,808,494
Orlandar	146,496		3,847,684
Orlander	492.047	402,873	34444
emin seed	501.611	870,617	6,014,698
ennel seedb.		267,564	3 260,262
inger root.	463,210		# 000.800 · · i
linger root	594,405	660,630	82,864,840
Austard seed, whole Bo. Hutmegs, unground Bo. Priganum, whole	7.977.770	5,726,862	0.5 000 000
Manager, and round	501.309	267,183	2,883,924
Prigenum, whole		445 400	4 710,030 4
	705,068	410,420	10,550,705 25
	738.247	1,238,962	10,000 875
Street and anground	10,346,606	10,686,048	60 173.575
Abbar Lad Cabatoliti	10,010,000	2,021,245	10.251,019
CUDAN, WHICH II AMERICAN	1,984,210		4 635,450
Unanto December	495,211	206,284	AAR ASS
epper, red, capaloum (b. epper, white, unground (b. epper, white, unground (b. epper, white, unground (b. epper, e	86,240	80,644	132.77
Character of the Control of the Cont	239.743	229,840	1,000/12/11/2

PRICES TRENDLINE

WEEK ENDING OCT. 17, 196

thire about imports fell from

total of 26t, 122 pounds to a 1985 Mg

1 t 2.5 40 pounds and a t 986 January Mer August figure of 8.4 t3 pounds New &

material was imported in May, John

gust of this year. Its cost was around the

nor clissia oil are in current demand to

are turning to other sources. Onthe

try source suggests domestic protecta

Since mention imported bitter almedi

CHANGES/UP

bitter almond oit "

-\$3 per journd.

PERFUMES & FLAVORING

With Oversupply, Demand 01

Cassia Oil Price Weakens

Assi Oil, Madagascar, \$6 perib.
Camphor Oil, 25c. perib. Oil, Ceylonase, 10c. perib.
Cinnamon Leaf Oil, Ceylonase, 10c. perib.
Cumin Oil, \$12 per ib. shipped
Oill Soed, Indian, 3-7c. perib.
Gingor, Jamaican #3, 10c. perib.
Nutmags, Whole East Indian, \$c. perib.
Oregano, Maskon, 45-50c. perib.
Oregano, Maskon, 45-50c. perib.
Snijo, Oalmailen, 5c. perib.
Snijo, Oalmailen, 5c. perib.
Sesame, Contral American cleaned, 18c. peb.
Timmeric, Allopey 3-4*a, 2c. perib.

CHANGES/DOWN

Durgamot Oil, Orazillan, \$3 per lb. Caraway Scotl, Outch Recleaned, Ic.per l. Cardemons Oil, \$10 per lb. Carsta Oil, Chinesa, \$8-\$14 per kilo Cinveleal Oil, Madagascar, 20c. per ib. Cumin Seed, 3-5c. per lb. Gingor Oil, Chinese and Indian, \$2.50 per b Lomony nes Oll, Cuatomaien, IDc per b. Putchnull Oil, Indonesian, \$1,25 per b. Spenimint Oil, Chinese 60%, 35c, per b.

PERFUMES INDEX

The Purfumes & Flavorings index llects the prices of 11 represents neiterials in this sector and the que:

ESSENTIAL OILS

"Last year Indion production was said

SEEDS AND SPICES

MUSTARD SEED - Imports increased by over 1,200,000 pounds from June's total of 6,726,852 pounds to July's total of 7,977,770 pounds. The Influx was due to arrivals of new crop shipments which have reportedly continued through August and September.

PERFUMES & FLAVORS

and in the US." Though the raw material, ginger root, has been steady and resisted soft-

eoing, industry sources expect ginger oil prices to fall further. "It will depend on the

new crop in India," says another brokers, "If

its very small, it could compensate for the

flicts." An essential oils Importer sees the

same situation: "The Chinese have been com-

peting among themselves, offering lower and

At the same time, sources don't envision

any increased usage of ginger oil. "Prices

aren't dropping because usages have de-

creased," says an essenttal oils broker, "If

anything, demand has flattened out." The

combination of oversupply and static de-

mand, industry sources agree, will prohably

send spot prices down further, "perhaps to

below \$20 per pound," says a broker.

"There's a larger than expected crop or the market," says a spice broker, "and it brought prices down." Spot prices have declined gradually from mid-August to the present Oriental mustard seed went from 25c. to 26c. per pound as of August 15 to 22c. per pound as of October 15. Canadian and US #1 mustard seed fell 2c. In the same period from 24c. per pound to 22c. per pound. Ground mustard olso fell from 35c. to 30c.

"Although the price at which the farmers have to sell is at a loss," says a spice importer, "they have no choice but to put it nn the market." The spice broker agrees: "The market is not elastic. It won't support these surpluses so the growers lose money.

COATINGS & PLASTICS

Continued from Page 33

Corporation, have not made ony moves.

Discounts bad a pronounced effect on profit margins lhis year, producers complain. Prices for raw materials alsn went up this quarter. The therease represents on attempt to bridge the gap between 11st and selling values, producers say.

POLYETHYLENE — Producers report.

that prices for bigh-density, low-density and linear low-denaity polyethylene (IIDPE, LDPE and LLDPE) have been firming this month, and the fourth quarter price in-creases are expected to hold.

Hikes of 5c. per pound for LDPE and LIDPE had been announced for August 1; cootractual obligations and competitive pricing forced producers to deloy the enforcement date until October 1, the effective date for the HDPE price Increase. Producers of LDPE say that, to date, they have seen oll of the increase in lower end markets, such aa locar grade, and over 75 percent of the increase in extrusion grade segments, depend-ing on the individual grade. Most accounta are now paying 29c. per pound to 30c. per reports. Prices for butene comonomer LLDPE now stand between 29c. and 32c.

Inventory levela fell sharply from July through September, with production falling short of demand by almost 78 million pounds. Some production outages over the Summer are blamed, as several LDPE and LLDPE facilities were temporarily shut down.

Demand for HDPE has been high; through July, total demand increased 8.1 percent over last year's level, with exports up by almost 13 percent. Capacity utilization rate is said to be almost 100 percent. Spot outages



We're growing bigger without losing our personal touch.

FLORASYNTH Flavory and Fragrances

Executive Offices: 410 E, 62nd Street New York, New York 10021

Worldwide Creative Centers, Manufacturing Facilities, and Sales Offices

Subscription retea: Domeelic US, \$65. a year; Europe (airspeeded), \$135. a year; Jepan (airspeeded), \$220. e year; Canada and rest of world, \$95. e year. CHEMICAL MARKETING REPORTER

(1) Corporate Administration

(4) D Research & Development (5) Processing & Production

(M) D Manufecturing

(2) Marketing/Sales

☐ Purchasing

Distribution

(9)

Other.

(7) D Librarian/Consullant

CHEMICAL PRICES

WEEK ENDING OCT 17, 1986

Thie chemical prices section contains epot quotetions end/or liet prices of euppliers of chemicale end releted materiale on a New York or other indicated besis. The listings are beeed on price information obtained from suppliers. Note thet posted pricee do not necessarily represent levels at which traneactions actually mey have occurred. They do not represent bld and asked prices, nor e renge of prices over the week. Price renges mey represent quotations of different suppliers es well as differences in quentity, quelity end location. All metters under this heeding are fully covered by copyright.

An index of weekly chemical market reports is on the beck cover.

		1	7
A			•
Λ		į į	
A		- 1	
This is the same of the same o			,
Ables siperics oil, cns ib.	15.00	- }	•
Acetakiehydio, 89%, tunks, frt. alld. fb. Prices to. higher in West.	.37	- 1	•
Aceteminophen (see M-Acetyl-p-aminopher Acetaniide, tech, fisked, bgs, Lt., 1.o.b.		Į	
worksb. Aceticacid, tech., tunks, divd, Eib.	1.29	-	
ACERIC BRITISCHOOL (BISKS, CIVOL E D.	.25 .431 ₁	- 1	-
Acetic anhydride prices 1c. higher in Wes Acetoscetanlide, dms., 11., dwd ib.	1.29	- 1	
Acatosce1-o-anisidide, dma., 1 l., dwdb.	2.70	_ [-
Acetoucet-o-chloroanlide, data-, 11.,		- 1	
Acetoace I-o-toluidide, dms., 1.l.,	2.85	- 1	•
Acetoace1-m-xylidide, dma., 1.i.,	1.58	-	•
divd	3.33 .25	- 1	
dvd. Zone 2 (Calif.) b. dvd. Zone 3 (W. of Rockies exclud-	.27	- 1	1
ing Calif.)	.27	- 1	
ing Calif.)	.63	.541/2	
Acelognenose, tech., janks, 1,0.b.	70		
works	.78 2.15	.88	
N-Acetyl-p-emtrophenol, c.l., 1.l. works. kilo Acetylene black, imp., 50% com-	5.85	6.64	
Acetylene black, imp., 50% com- pressed, 12%-b. bgs. c.l., t.l.			١
in. extra	.96	-	l
313	.95%	_	l
Acerviene tetrapromide, tenke, r.o.b.	.97		Į
works			l
works	1.28	-	١
WORKS	2.06	-	۱
Acrolein, tech., tenks, works ib. Acrylamide, solid, t i. works ib.	.82 1.00	-	۱
son. 100% basis tanks, works fb. Acrylic acid, glacial, reg., 1anks,	.74	.17	١
divd. Ro. lector, reg., lattice, Ro. lector, tanks, let. sild	.87	-	l
ACTYOCHUDO, DANKE, WORKS	.60 .39V±	.45%	Į
Acrylonitrile-butadiene-styrene resin, high-impact, nat., t.t., dma.,			I
divd	1.09 1.05	1.12	ì
low-moact, nat., same basis b.	.98	1.08 1.01	١
Adipic acid, resin grade, burk, hopper care, trt. equald	.57	-	I
bgs., t.t., c.l. frt. equaldb. Agar U3P, powd., 60 to 100 mesh.,	.59	-	
drns	8.50	8.65	
WO'KS	.38		1
C-12 to C-13, tanks, divd b. C-14 to C-15, tanks, divd b.	.57 .57	.69 -	
C-18 to C-15, tanks, divd b. Aldehyde, C-8, dms b.	.60 4.10	5.70	
C-7, dms	1.85 4.30	6.30	
C-10 dans	4.30	5.35	
Alger (see Sodium algerate.) Alkali blue, dry, flushed, 110-lb. dms,			
divd	3.72	3.83	
Rockies. Alispica Guatematan / Honduran,			
D03	.87	-	
Jamaican, bgs	1.05	-	
Allyl bromide, 500-kilo dins. 2,000 lbs.	.90	-	
ARVI caproate, 25-b, cns b.	5.50 3.90	4.50	
Allyl chloride, tanks, f.o.b. works lb. Allyl isothiocyanata, bots lb.	.65	-	
AUTONO DE BIOL. Diter (See Hen yskieto)	5.40 (a.)	6.90	
Almend oil, nat. bitter, NF f.i.p.a. bots	3.50	3.60	
Aloe, Cape, cs	1.24	1.50	
powd., csb.	2.25	2.78	
powd., kgs	3.00	-	
Aloin, NF, drns	6.00	5.70	
Atum, ammonium, tech. gran., bgs., c1,11, works 100fb. FCC powd., fiber dms., works 100fbs.	35.00 65.00	_	
Alam, potassium, tech, gran, bgs., c.l., 11, works 100 lbs.		-	
-ECC powd. fiber drus., works. 100 fbs.	35.00 56.00	2	ij
26 CUENTOAT M			_

et reports is on the back c		
Alumina, activated, gran., 100-lb. bgs.,		
40,000-lb, min. c.l., works. ton	B21.00	-
	354.00	-
	380.00	-
hydrated, white, bulk, same ba-		
\$15 ton	190.00	-
100-lb, bgs., same besis ton 2	224.00	-
Aluminum acetate, basio, dms., i.c.i,		
worksb.	8.25	-
Aluminum chloride, snhyd., soin., 500-		
600 lb. dms., c.l., 1l., works,		
frt. equald	.63	-
bulk, same basisb.	.48	-
semi-bulk bins, same basis ib.	.52	-
Aluminum chiloride, comil., soin., 32°		
tanks, works 100 lbs.	15.00	-
ret. dma., c.l., works 100 foa.	12.00	-
ret. dms., c.t., works 100 fbs. non-ret. dms., asme basis . 100 fbs.	20.00	_
Aluminum locate, dissio, lig. 8%		
Al-O. tl., works	.55	-
ALO, t.l., works	S	
Aluminum hydroxide, dried, gel, NF,	-,	
75-lb. dms., c.l., 1.t. works. lb.	2.75	3.50
Aluminum metal, 991/1% or more, 50-lb.	2.70	0.00
piga., 30,000-lb. lots, 1rt,		
ald.	76	_
Aluminum oxide amorphous (see Alumine	nefelpers.	_
Aluminum paste, feating grade,	s, omen early	
eld.,lining, 2,400 tb. late,		
*10.5mmg, 2,400 (d. 100)	1.40	
divdb.		2.14
Aliente metacode docata a edil 100	1.99	414
Aluminum phenoisulionete, puril., 100- kilo dins., LL	8.48	
Aluminum posseler leging grade and	0.40	-
from 2 400th has shed to	2 47	
lining, 2,400 lb, lots, divd b. extra fine, lining, same basie b.	3.17	-
Aluminum steers to bee at	4.04	1.37
Aluminum stearate, bgs., c.l b.	1.25	147
Afuminum sullete, comil., grd., 100 lb.		
bgs., c.l., works, frt. equald.		
basis 17% Al ₂ O ₃ East and Guil	and on	
Coastaton	208.00	-
West Coast ton	220.80	-
Iq., tanks, N.E. same basts ton	145.00	-
tron-free, dry, bgs., c.f. seme	200 00	
basie	300.00	200
No. tarks, same tesia ton	225.00	285.00
Aluminum sullele, USP, gran., dms. b. Aminoscetic add, USP, dms., 20,000	-	.337
Allenosom acu, USP, Omp., 20,000	0.40	
lbs., f.o.b, workslb,	2.12	-
p-Aminobenzoic scid, 1,000 kilos or	1.88	-
Prominuoenzoic scal 1,000 Kilos Of	0.00	
anore, das, 1.o.b. works . klo 2-Amino-4-chlorophenol dry and grd.,	9.60	10.10
and grd.,		
t 19.000 tog. of more, 177, 484, to	5.78	-
Aminosthyl ethanolamina, tanka, irt.		
colectb.	1.331/2	-
THE PART OF THE PROPERTY OF TH		
m.cotectb.	1.05	-
2-Amino-2-ethyl-1,3-propanedict		
dms., LL f,o.b. worksb.	1.82	

p-Aminophenol, 1.I. dms., 1.o.b.	0.00		p-Anisidino, imp., cost solid, dms.,	221	•
Fisielsh N.G KIQ	7.15	-	Works	1.90	. :
n-Aminoselicvic acid, USP, 50-km	18.50	_]	Anthraniic acid, puril., 99% min., dms.,	2.25	•
dme., 1.1	10.00	_	t I. Irt. 8ld Ro	1.70	
tanks, divo. Midwest termi-			Antimony fluoborala, liq. cond., 175-lb.		· 1
nalaton		170.00	Antimony metal, bulk, c.l., minesib.	3.02	. i
tankcars, f.o.b. Gulf Coast ton	60.00	85.00	Antimony exide, high-lint, bgs., c.l., irt.	1.35	13
aqueous, 29.4% NH ₃ , anhyd. basis, tanks, frt. equald. E. of Rock-			Bild. E. OI HOCKIES	1.35	1.55
leslon	260.00	315.00	Antimony trichloride, anhyd., solid, dms .1.l. works	_	
Ammoniacai liquor (sea Ammonia, aqueo	ua).		Apomorphine hydrochloride, NF, bots.	3.60	•
Animoniac sal, galvanizing grade, bgs.,	28.60	_		16.00	
c.i., t.o.b. works 100/bs Ammoniac sai, white lase Ammonium chi		7	Apricot kemel oil, dms	205	
Ammonium biborete, gran., dms., c.i.			spray dried	1.85 200	215
worksb.	.90	-	LISP oracle th	E 43	2.5t
Ammonium biborale powder 16c. per lb. Ammonium bioarbonate, 300-fb. Fb.	. ragraer.		Aromatic pairolaum selvente (sas	Bolyant a	aphiba
dmac.l. works 100 lbs.	28.00	-	Arsenic, crude (see Arsenious trioxide).		
bge., c.l 100 lbs.	25.00	-	Arylid, red (see Napthol, arylid red).		
Ammonium bichromsta, prioto-inno			Arsenious Irloxide, 99%, bulk, c.l.,		
grada, gran. 100-lb. dms., l.Ll. worksb.	2.00	-	Aabastine (see Talc, Irbrous).	.42	A .
Ammonium bifluoride, bgs., i.i.,			Ascorbic scid. USP, 100 kites,		
works	.70	-	COVOkilo.	9.00	10.50
Ammonium bromide, dom. NF, gran., dma., al., 11, 1.o.b. works . ib.	1.31	_	Ash, black (see Barlum suilide). Asphelt gisonite, (see Gisonite).		
Ammonium chloride, white, tech.,	1.01		Asphall petroleum cutback, tanks, E.		- 1
fine gran., boa., c.l.,			Coasigal	.88	-
WORKS100028.	16.00	.53	amulsion, tanks, lankwagens, E.	40	
USP, gran., dma	.40	.55	ateam-refined, 40-300 penetration.	.68	- ;
dme. f.o.b. works lb.	2.78	-	tanks, lankwagonton	170.00	
Ammonium dimolybdete, approx.			steep roofing grade, bulk tenkwag- onten	176 00	i
85%, 24,000 lbs. or more .lb.	5.48	-	Aspirin, USP, cryst., pewd., 250-	175.00	- 1
Ammonium fluoborata, tech., dma., c.i., t.i., works, frt. equaldlb.	1.79	-	lb.dms., c.l., f.o.b	1.95	- 1
Ammonium heptamolybdale, cryat.,			10% starch granulation, whita, 250-	4.07	
dms., 24,000 lbs. l.o.b.			18% starch granufation, white, same	1.97	-
Ammonium lauryi suliste, tanks, I.o.b.	6.67	-	basis	2.80	
worksb.	28	.32	Freight equald, shipt, identical quantity		
Ammonium lignin, sulfons to, bulk,			from N.Y., Phila., Midland, Mi	on, Ches	d and ar
f.o.b. Hoquism, Ore ton Ammonium nitrate, dom., fartizer	72.00	-	Atropina auliata, USP, bols oz.	10.00	t1.00
grade, 33.5% N, bulk, 8.E.			Avocado oil, dms	4.00	4.50
divdton	130.00	135.00	Azeleic acid, lech., 50-lb. bgs., t.l., c.l., divd	1.23	
Ammonium oxalata, tech., fine. gran.			Azo orange, bbis., divd	480	•
300-lb. dme., t.l., f.o.b. worksb.	1.42	1.68	Azo yellow, tO G, bgs., dlvd. E. of		
Ammonium pentaborate gran. bgs.,		1.00	Azo G yollow pigment, bgs., same ba-	4.40	-
o.l., worksb.	.75	-	Bia	2.45	-
Ammonium pentaborate powder 20c. per lb. higher.				السسنا	
Ammonium persuilete, 225-lb. dms,					
24,000 lbs. or more, f.o.b.	-				
worksb. 56-lb, bgs., same basisb.	.58	-			
f 00-10' n. 50' 90' 19 netgig 10'	.6614				
	MATCH COMPANY				
Ammonium phosphate (ase Di- and a phates).	noncemino	mum prios-			
Ammonium phosphete (ase Di- and a photes). Ammonium elicofluorida, dma, o.l., t.l.,					
Ammonium phosphete (ase Di- and a phates). Ammonium silicofiuorida, drns. c.l., t.l., works.	3094		Sactiracin, USP, non-sterilo, ona billion	4.70	48
Ammonium phosphate (see Di- and a photies). Ammonium elicofluoride, drns. o.l., t.l., worksb. Ammonium sulfate, ig. gran., buik, o.l.,		-	Sectivatin, USP, non-sterile, one billion units or more, million units	6.30	6.60
Ammonium phosphete (see Di- and m phetes). Ammonium elicofluoride, dme. o.l., t.l., works	.30% 60,00 60.00	90.00 70.00	Barbital, NF, 50-kilo drys., divd kilo	6.30 22.50	8.80
Ammonium phosphate (see Di- and or photies). Ammonium elicofluoride, drns. o.i., t.i., works	.30%	90.00	Barbital NF, 50-kilo dms. dvd kilo Barbital-sedium, NF, 50-kilo dms.		6.80
Ammonium phosphate (see Di- and a photies). Ammonium elicofluoride, drns. o.i., t.i., works	.3034 60,00 60.00 108.00	90.00 70.00	units or more menon drivis Berbital, NF, 50-kilo dms., divdkilo Berbital-sedium, NF, 50-kilo dms. divd	22.50	
Ammonium phosphate (see Di- and in phosps). Ammonium elicofluorida, drns. o.l., t.l., works	.30% 60,00 60.00 108.00	90.00 70.00 120.00	Barbial-NF.50-Milo das, dwd. kifo Barbial-sedium, NF, 50-kifo das, dwd	22.50	0.80 - .tf
Ammonium phosphate (see Di- and in photies). Ammonium elicofluoride, drns. o.i., t.i., works	.3034 60,00 60.00 108.00 450.00	90.00 70.00 120.00	Units or more merco divis Barbital NF, 50-kilo dins. divdkilo Barbital sedium, NF, 50-kilo dins. divd	22.50	
Ammonium phosphete (see Oi- and in photies). Ammonium elicofluoride, dme. o.l., t.l., works	.3034 60,00 60.00 108.00 450.00 mmonlum th	90.00 70.00 120.00	Barbiai, NF, 50-kilo dns, dnd. kilo Barbiai-sedium, NF, 50-kilo dms, dhd	22.50 23.00 .09 .13	
Ammonium phosphete (see Oi- and a phetes). Ammonium elicohuoride, dme. o.l., t.l., works	.3034 60,00 60.00 108.00 450.00 nmontum th	90.00 70.00 120.00	units or more merion drists Barbital, NF, 50-kilo drist, divd kilo Barbital-sedium, NF, 50-kilo drist, divd	23.00	
Ammonium phosphete (see Oi- and in phetes). Ammonium alticohuorida, dma. o.l., t.l., works	.3034 60,00 60.00 108.00 450.00 nmontum th	90.00 70.00 120.00	units or more merco covis Barbital NF, 50-kilo dms., divd kilo Barbital sedium, NF, 50-kilo dms. divd kilo Berita, dry-grd., Southern, eli-color, coarso, bgs., c.i., 1.0 b, mines b. wetor-grd., white, bgs., c.i., 1.0 b, works to. unbleached, s.kra-lino, pigment grade, c.i., 1.0 b, werks 100. Barium Carbonato, procip., bufk, c.i	22.50 23.00 .09 .13 180.00	- .tf -
Ammonium phosphete (see Oi- and in phetes). Ammonium elicofluoride, dms. o.l., t.l., works	.3034 60,00 60.00 108.00 450.00 nmontum th	90.00 70.00 120.00	Units or more merco civis Barbital, NF, 50-kilo dms. dvdkilo Barbital-sedium, NF, 50-kilo dms. dvd kilo Berita, dry-grd., Southern, oll-color, coarso, bgs., c.t., 1.o.b. mines b weter-grd., white, bgs., c.t., 1.o.b. works to unbleached, a kira-live, pigment grade, c.t., 1.o.b. works to. Barkern carbonato, procip., butk, c.t., works, kt. equald b. bgs., sume barits ib.	22.50 23.00 .09 .13 180.00	- .tf -
Ammonium phosphate (see Oi- and in phases). Ammonium allicofluorida, drns. o.l., t.l., works	.30% 60,00 60.00 108.00 450.00 470 and the first state of the first st	90.00 70.00 120.00	units or more merco crists Barbital, NF, 50-kilo dms., divd. kilo Barbital-sedium, NF, 50-kilo dms., divd. Berita, dry-grd., Southern, ell-color, coarse, bgs., c.t., 1.0-b mines to. weter-grd., white, bgs., c.t., f.o.b. works	22.50 23.00 .09 .13 180.00	- .tf -
Ammonium phosphete (see Oi- and in phosphetes). Ammonium allicofluorida, dma. o.l., t.l., works	.3034 60,00 60.00 108.00 450.00 450.00 1.02 .93 .13	90.00 70.00 120.00	Barbiai, NF, 50-kilo dns, dnd. kilo Barbiai-sedium, NF, 50-kilo dms, dhd. Berita, drygdd, Southern, eli-celor, coarse, bgs., c.l., 1.c.h. minas ib. weter-grd., white, bgs., c.f., f.o.b. works. Lib. unbisached, skira-ino, pigment grade, c.l., f.o.b. werks. Barium carbonato, precip., bulk, c.l., works, kt. oquald. Diss, same barsis. Barium chlorate, 100-lib, dms., 1-10 Barium chlorate, 100-lib, dms., 1-10	22.50 23.00 .09 .13 180.00	- .tf -
Ammonium phosphete (see Oi- and in phosphete). Ammonium allicofluorida, dms. o.l., t.l., works	.3034 60,00 60,00 108,00 450,00 450,00 1,02 .93 .13	90.00 70.00 120.00	Units or more merco divis Barbital, NF, 50-kilo dms. dvdkilo Barbital-sedium, NF, 50-kilo dms. dvd kilo Berita, dry-grd., Southern, oll-color, coarso, bgs., c.t., 1.o.b. mines b weter-grd., white, bgs., c.t., 1.o.b. works b unblesched, s.kira-livo, pigment grade, c.l., 1.o.b. works ton Barium carbonato, procip., butk, c.l., works, kt. equald bb bgs., sume barsis bb photo grade, bge., samo basis ton Barium chiorate, 100-lb, dms., 1-10 drt., tots, works ib.	22.50 23.00 .09 .13 180.00 .25 .25 % 510.00	- .tf -
Ammonium phosphete (see Oi- and in phetes). Ammonium alticohuorida, dma. o.l., t.l., works	.3034 60.00 60.00 108.00 450.00 nmonkum th 1.02 .93 .13	90.00 70.00 120.00 	Barbital, NF, 50-kilo dos., dod. kilo Barbital-sedium, NF, 50-kilo dms. dhd. Berita, drygrd., Southern, eli-color, coarse, bgs., c.t., t.c.h mines to. weter-grd., white, bgs., c.t., f.o.b. works. unbleached, skira-inc, pigment grade, c.l., f.o.b. werks. grade, c.l., f.o.b. werks. bos., same barsis. bys., same barsis. Barium chlorate, 100-lib, dms., 1-10 dm, lots, works. Barium chlorate, 100-lib, dms., 1-10 dm, lots, works. Barium chlorate, 100-lib, dms., 1-10 dm, lots, works. Barium chlorate, 100-lib, dms., 1-10	22.50 23.00 .09 .13 180.00 .25 .25 / 10.00 1.04 470.00	- .tf -
Ammonium phosphete (see Oi- and in phosphete). Ammonium elicofluoride, dms. o.l., t.l., works	.3034 60,00 60,00 108,00 450,00 450,00 108,00 1.02 .93 .13 .72	90.00 70.00 120.00 120.00	Barbital, NF, 50-kilo dms, dwd. kilo Barbital-sedium, NF, 50-kilo dms, dwd. Berits, dry-grd., Southern, ell-color, coars, pgs., c.t., t.o.b. mines b. weter-grd., white, bgs., c.f., f.o.b. works. turblesched, satra-live, pigment grade, c.f., f.o.b. werks. Barium carbonato, procip., burk, c.f., works, t.t. equald. bb. bgs., same basis	22.50 23.00 .09 .13 180.00 .25 .25 % 510.00	- .tf -
Ammonium phosphete (see Oi- and in phetes). Ammonium elicofuoride, dme, o.l., t.l., works	.3034 60.00 60.00 108.00 450.00 450.00 1.02 .93 .13 .72 .57	90.00 70.00 120.00 	units or more metron or instance of the barbital NF, 50-kilo dms., dwd. kilo Barbital NF, 50-kilo dms., dwd. kilo Barbital NF, 50-kilo dms., dwd. Berita, dry-grd., Southern, oll-color, coarso, bgs., c.t., 1.0-b mines b. weter-grd., white, bgs., c.t., 1.0-b, works. to. unbleached, a kira-live, pigment grade, c.l., 1.0-b, werks. 100. Barkern carbonato, procip., burk, c.l., works, kt. equald. tb. bgs., same basis. 100. Direlo grade, bgs., same basis too. Barkern chlorate, 100-lb, dms., 1-10 dm., lots, works. 100. Bartum chloride, lech., cryst., bgs., c.l., works. 100. Bartum chloride, lech., cryst., bgs., c.l., works. 100. Bertum chloride, purif., cyrst. 400-lb.	22.50 23.00 .09 .13 180.00 .25 .25 / 10.00 1.04 470.00	- .tf -
Ammonium phosphete (see Oi- and in phistes). Ammonium allicofluorida, dma. o.l., t.l., works	.3034 60,00 60.00 108.00 460.00 1.02 .93 .13 .72 .57 .489 .235 .91	90.00 70.00 120.00 nicoyanate).	units or more merion divise Barbital NF, 50- kilo dins, did kilo Barbital sedium, NF, 50- kilo dins, did. d	22.50 23.00 .09 .13 180.00 .25 .25 / 10.00 1.04 470.00 690.00 3.78	- .tf -
Ammonium phosphete (see Oi- and in phetes). Ammonium alticohuorida, dma. o.l., t.l., works. Ammonium altiteta, ig. gran., bulk, o.l., works. Ib. Ammonium autiteta, ig. gran., bulk, o.l., etch., ogs., o.l., t.l., works. In ammonium autiteta, ig., 40-44% tanks, 100% basis, irt. equald., ton. Ammonium autitocyanida, tech., cryst., bgs., o.l., works. Idom thiocyanata, tech., cryst., bgs., o.l., works. Isoh eoln., 50%, tanks, irt. equald., ib. Ammonium thiosistata, photographia, 80%, tanks, i.o.b. works. Ammonium thiosistata, photographia, 80%, tanks, i.o.b. works. Ammonium tricosistata, photographia, bulk. Ammonium tricosistata, photographia, 80%, tanks, i.o.b. works. Ammonium tricosistata, photographia, bulk. Ammonium tricosistata, photographia, 80%, tanks, i.o.b. Amyl scotata, primary mbsed isomers, tanks, ctvd. Amyl scotata, primary mbsed isomers, tanks, ctvd. Amyl scotata, gran. Amyl chamarnic atternation. Amyl chamarnic atternation.	.3034 60,00 60.00 108.00 450.00 450.00 1.02 .93 .13 .72 .57 	90.00 70.00 120.00 120.00 niceyanate).	units or more merion drists and control of the barbital NF, 50-kilo dms. did d.kilo Barbital sedium, NF, 50-kilo dms. didd kilo Berita, dry-grd., Southern, oll-color, coarso, bgs., c.t., 1.0 b. mines b. wefer-grd., white, bgs., c.t., 1.0 b. wefer-grd., white, bgs., c.t., 1.0 b. werks 100. Barium carbonato, procip., butk, c.t., works, kt. equald. b. bgs., sume baries. b. pholo grade, bgs., same basis ten Barium chlorate, 100-lb, dms., 1-10 dm., lots, works. b. Barium chlorido, lech., cryst., bgs., c.t., works. b. Barium chlorido, purit., cyrst. 400-lb, dms., works. b. Barium chlorido, purit., cyrst. 400-lb, dms., works. b. Barium monehydrate, 56-b. bgs., o.t., t.1.0. bys., c.t., 100 lbs.	22.50 23.00 .09 .13 180.00 .25 .25 / 10.00 1.04 470.00 690.00	- .tf -
Ammonium phosphete (see Oi- and in phetes). Ammonium elicobuoride, dme. o.l., t.l., works	.3034 60,00 60,00 108,00 450,00 450,00 1.02 .93 .13 .72 .57 	90.00 70.00 120.00 120.00 100yanate).	units or more merco dress Barbital-sedium, NF, 50-kilo dms. dhd. kilo Barbital-sedium, NF, 50-kilo dms. dhd. kilo Berita, drygrd. Southern, eli-color, coarso, bgs., c.t., t.c.h mines to. weter-grd., white, bgs., c.t., f.o.b. works. to. unbiseched, sixtra-ino, pigment grade, c.l., f.o.b. werks. ton Berium carbonato, precip., bulk, c.l., works, kt. oquald. tb. bgs., same barsis. tb. phelo grade, bgs., samo barsis ten dr., lots. works. ib. Barium chlorate, 100-lb, dms., 1-10 dr., lots. works. ib. Barium chlorido, lech., cryst., bgs., c.l., works. ton Berium drionido, lech., cryst., 400-lb. dms., works. 100-lb. Barium morehydrate, 56-fb. bgs., o.l., t.l. l.o.b. works. 100 lbs. oclahydrate, cryst., bgs., same	22.50 23.00 .09 .13 180.00 .25 510.00 1.04 470.00 690.00 3.78 46.00	- .tf -
Ammonium phosphete (see Oi- and in phosphete). Ammonium elicofluoride, dme. o.l., t.l., works	.3034 60,00 60,00 108,00 450,00 1,02 .93 .13 .72 .57 .489 .235 	90.00 70.00 120.00 120.00 niceyanate).	units or more merion drists and control of the barbital NF, 50-kilo dms. did d.kilo Barbital sedium, NF, 50-kilo dms. didd kilo Berita, dry-grd., Southern, oll-color, coarso, bgs., c.t., 1.0 b. mines b. wefer-grd., white, bgs., c.t., 1.0 b. wefer-grd., white, bgs., c.t., 1.0 b. werks 100. Barium carbonato, procip., butk, c.t., works, kt. equald. b. bgs., sume baries. b. pholo grade, bgs., same basis ten Barium chlorate, 100-lb, dms., 1-10 dm., lots, works. b. Barium chlorido, lech., cryst., bgs., c.t., works. b. Barium chlorido, purit., cyrst. 400-lb, dms., works. b. Barium chlorido, purit., cyrst. 400-lb, dms., works. b. Barium monehydrate, 56-b. bgs., o.t., t.1.0. bys., c.t., 100 lbs.	22.50 23.00 .09 .13 180.00 .25 .25 / 510.00 1.04 470.00 690.00 3.78 46.00	- .tf -

3.95

	Irom N.Y., Phile., Midland, MK Louis.	TL. Chicag	E bra t
	Atropina auliata, USP, bols oz. Avocado el, dmsib.	10.00	11.00 4.50
	Azeleic scid, lech., 50-lb. bgs., t.l., c.l.,		
	divdib.	1.23	-
	Azo orange, bbis., divd	480	•
	Azo yellow, tO G, bgs., dlvd. E. of Rockles	4.40	
	Azo G yollow pigment, bgs., same ba-		
	8fa	2.45	_
	i 🕒		
5-	} L.2		
	الأشاف فالأنسان والأرسي الأثران والأراب	البصار	
	Sadiracin, USP, non-sterile, ona billion		
	units or more million units	6.30	8.80
	Barbital NF, 50 kilo dms., dlvd kilo	22.50	•
	Barbital-sodium, NF, 50-kilo dms.	23.00	
	divd	23.00	-
	Berita, dry-grd., Southern, oll-color, coarse, bgs., c.l., 1.0.b. mines D.	.09	.tf
).	wejer-grd., white, bgs., c.f.,		
	f.ob.works	.13	•
	unbleached, axtra-line, pigment		
	grade, c.l., f.o.b. works 100	180.00	•
	Barium carbonato, precip., bulk, c.l.,		_
	works, kt. oquald lb.	.25	
	bgs., same basis ib.	510.00	
	photo grado, bga., samo basis ton	010.00	
	Barlum chlorate, 100-lb, dma., 1-10 dm. tota, works	1.04	-
	Barlum chlorido, lech., cryst., bge., c.l.,		
	worka, ton	470.00	•
	anhyd. drums c.l., some basis. ton	690.00	•
	Berium chloride, purit., cyret. 400-lu.		_
	dms., works	3.78	•
	Barlum monohydrato, 55-fb. 095., 0.1.	46.00	•
	t.l. l.o.b. works 100 lbs.	40.00	
	ociahydrato, cryst., bgs., samo	33.00	•
6	Bartum nitrato, 100-lb. bgs. 1.1.		
•	works 100 lbs.	32.50	•

THE TERMINOLOGY OF THE CHEMICAL MARKETPLACE

C./Centigrade cbys./carboys oc./cubic cent CD/complately atured cl.1./cost insur- freight cl./carboad cost./cans com/.commer conc./concent cp/dhemically cs./caste cs/case chs./cartons cyts./csee chs./cartons cyts./cytalli

	Ohje.
	cyla.
beta /Bauma	a 8.0
/Baume ks./barrels	d-/de
g./beta-gamma	Getti
a./bage a./bales	dest
ts./bottles	tiv d/da
p./boiling point p.l./bone phosphate	dat.
at j iwa birtoous buosbusis	divd
r./bolling range	dms
s./boxes	dom

E/Eas1 e.p./end poi equeld./eque exp./express extr./extrace
F./Fahrenha f.a.s./free at fermenf./fer
1.1.e./free fa 1.1.e./free 1.1.p.e./free alo sold
tib./fiber t.o.b./free o t.p./freesing frt./freight

.s./free alongside ment/fermentstion &/free fatty acid &/free from chlorine	i.o.L./less carload i.t.l./less truckloss liq./liquid
-in-a-1 (1801) DUTE-	m-/mota
organia ad soid	m.a.p./mixed anili
b. Hree on beaut	meg./mlerogram
-/freesing point -/freight	mira-imenufecture min-iminimum
/gamma il/gation	molt/molten m.p./melting point
p./general purpose	N/altrogen
en./granuler	n-moomal
rd/ground	net/netural
p/initial boiling	neut./neutral NF/National Form
point	Ho number
np/imported	Nom./nominal

ord/ordinary
os./ounce
P/phosphorus
p-/para
Pac./Pacific
pl/prool
phos./phosphale
photo/photographic
pkgs/packages
powd./powdered precip./precipitated
prod/producer
pt/point
puly./pulyerteed
puly./pulverteed purit./purified
redist./redistiled
redist/redistilled refd/refined
refy telmery
and the same of th

rool ./phosphate	tanks/raliford tank
o programmin	tech.hechnical
o/photographic L/packages	tert /tertiery .
/packages	Li./truckload
/powdered	ton/refers to short
p. precipitated	VI 3 1830 DAG
/producer olnt	TAVIEWDO
/pulverteed /purified	P.M. JELKMadmin
t./redistiled	USP/United State
refined	California of 10
refinery	vis /viscosity VMaP/varnishins
b./resublimed returnable	VALED I VETTICA IT
returnable	& painters
nacially danstured	
pecially denatured single distilled	W/West
enigre distance	WIND WEST COM
cutheast .	Military and and a series

amount in the state of the stat

	Berium oxide, grd., dms., c.t.	31.25		Borns, tech., gran., de 991/2% bgs., cl., v
	divid	30.00	-	bulk, o.l., works tech., pentahydrate, g
	Bartum staerate, bulk, 1.I., I.c.b.	.30	-	oga., c.l., works. bukk, c.l., works.
	dest	1.05 ano fixe).	-	Borax, NF (See Sodium bo Boric acid, tech., gran., 9
	Dark mt malata, USP, A-189 CONTINUES			c.l., works
	grade, powd., 25 kilo bga., 10,000 kilo kils lb. Barium suffice (black ash), dma., c.l.,	.581/2	-	Boron trichloride, CP, 1,6 works
	works. ton Basi Egyptian	460.00	.92	Boron trifluoride, 80-lb. cy works
	French	88.	.90	bulk, same basis Boron trilluoride, ether
	Basi of Grand Vert	45.00 52.00	70.75	dms., 1J., I.o.b., v phenolete, 500-lb., dms
	Bauxite calcined, refractory grade, 874-88% ALO, Baltimore &			Bromine, dms., 11, works
	Mobilemetric-ton Bay of, NF, 55-60%, dms	229.28 10.50	15.00	bulk, 45,000-lb.min., w purtl., 1.J., dvd
	Revnety Wax, DOB	2.70	3.00	Bromine divd., prices for d
	Seaswax, raid., blesched white, bricks, 100-lb.ctns	3.10 3.05	3.20 3.10	f.c. per-lb. higher higher for 30,00 higher for 15,000
	yellow, bricks, 100-b. etns lb. yellow, stebs, 100-b. etns lb.	3.00 2.95	3.10 3.05	Bromochloromethane, dan Midland
	Benfornie, dom., c.i. bags, 1.0.0.	43.50	-	Butadiene, tarka, f.o.b 1,4-Butanediol, tanka,
	Benzaidehyde, NF, dms., 1b.	1.25 .73	.83	equalddme., same basis.
	Prices sie 4c. per ID. higher West Cr the Rockles.			Butene-1, tanks, 1.o.b. wo n-Butyl acetate, syn., tank
	Beign Rouge, La	.85	-	n-Butyl scrytate, lanks, frt n-Butyl alcohol, syn., len
	Baytown, Texgal. Beaumont, Texgal.	.85 .85	-	ac-Butyl alcohol, syn., ter
	Catettsburg, Ky gal. Chicago district gal.	.85 .85	-	tert-Butyl alcohol, syn.,
	Chocolata Bayou, Texgal.	.85 .85	-	Butyl benzyl phthalate
	Corpus Civisti, Texgal. Oser Park, Texgal.	.85 .85	=	Butyl chloride, tanks, wort
	Houston district, spotgel.	.83 .85	.84	Butyl cyclohexyl phthal
	Wood River, II gal. Benzere hexachioride, 98% gamma iso	.85 mer (8 00 Lir		Butyl Isodacyt phthale
	Senzione orange, powd., bga., divd. fb. Iq., containers, divd fb.	4.90 3.38	8.70 3.89	n-Bulyi lactata, tanka, f.c.
	Benzidne yelow, AAA, bgs., dlvd lb. AAOA, bgs., dlvd lb.	5.60 7.35	8.05 7.40	lots or more, of
	AAOT, box., olvd	5.95	6.20	basis, divd tanks, 3,000-lb. min
	i.o.b.,works kg. Benzodinydropyrone, dms ib.	10.00 12.60	11.60	Butyl methocrylate,
	Benzoic acid, tech., bgs., c.l., t.l., f.o.b. works	.55	.58	Butyl octyl phthalate,
	USPoyst, dms., toniots same ba-	1.73	1.75	Butyl oleate, dist., dms., c
	Benzohaum, Sumatra, cs	1.60	-	p-tert-Butylphenol, tanka
	MF. 1,000 kidos or more, f.o.b kg.	3.50 7.45	3.80	Butyl phthalata (see Dibut Butyl stears) e cosmetic, d
	tach, 1,000 kilos or more, 100 morks. kgs.	4.35		or more tanks Butylstearate jech, t.l
	2.2, Benzothiazyi disulfide (see Merca fide). Benzothiazois, fields, dms., 1,000 lbs.	procenzorn	iszyi disul-	tanks Butytamins (see Mono-,Di
	or more, f.o.b. works b.	6.10	-	tert-Butylamine, dms., c. works
	photograde ding 1 000 lbs or	6,20	-	tenks, same basis Butylated hydroxyanisole,
	more, same basis	09.8	-	dme., dlvd Sutylated hydroxytoluene
	tanks, frt, equald	.87 .80	-	grades, c.l., I.l., by tech., bga., c.l., t.l., divd
	fartis, fit, equals	.57	.59 .75	1,3-8utylene glycol, tanks Butyraldehyde, tanks, dive
	19,000-lb lots or more bors	17472	.10	Butyric acid, tanks, irt. atic Butyric ather (see Ethyl bu Sutyrolactone, tanks, i.c.b
	pests, 50% and 55% formulations	2.35	8.98	n-Bulyronithte, dms., c.i., (
	Benzyl scelate done	1.71 1.20	1,95 2.50	tanks, divd
	acused that It dies It!	1.28	1.85	
	photo grade, t.l., dros., seme ba-	1.37	1.43	
	tarks, same basis	1.40	:	V
	tarks, same heale	1.32	-	Contribute abbedies and
•	Serzy thiords, tech., normal stone	1.85	2.25	Cadmium chloride, puril. ib. dms., 1.1., work
1	iarks, to b	.59 .54	-	Cadmium, CP, red, dark to 180-lb, lots, frt.
}	den fale und tottlitte, lales	8.50	8.95	Rockles
	Sign Butting and Ib.	2.30 10.80	Ξ.	medium-light shade, bbi
1	Barry proposalo, dime	15.60). _	Cadmium, CP yellow, all st 100-lb. lots, frt.
	Benzylesicylete b.	3.35 2.90	3.25	Rockles
1	Betahvinger of nat., Itahan, Lo.b	2.95 44.00	3.25	t.l., works, irt. eo medium-Eght shade, bbl
1	Bohandian 700 gme. or more	5,50	okd). _	818
	norman nitrate, puril. cryst. 100-			Cadmium-mercury lithopo strade, bbis., frt. Rockies
	oxychlorida, 100-b. dms	10,00	-	Cadmkm metal ingots or lots, os., divd
	evocarbonate, USP, madium	17.20		Cadmium nitrate, puril., f
	Biemuth subgallate, purif., 100-lb.	15.81	15.50	Cadmium-setenide-lithopo light shade, bbls., frt. slid, E. of Rock
	RETARRIE NF DOWN 200	10.50	-	deep shade, bbfs., same
4.	Wilseldviste, nutt naved	14.45	-	Cadmium-selenide lithopor shade, bble., sam
1	1000 reagent noved 100	17.00 15.00	18.45	fight shade, bbls., same medium light shade, bbl
	Drivers and and	15.00	15.45	medum shade, bbis., se
	Board Mrs. Byn., Imp., bacon. Ib.	.87 .71	Ξ.	marcon shade, bble., se Cadmium-selenide lithopon
4	Partylen, drie. Ib.	10.75 10.75	12.00	cadmium suffate, 60-lb.
1	Sovernesi status basis ib.	7.25 5.60	8.05 7.90	Quentity, 1.0.b. and Caffeire, dorn., USP, syn hyd., powd., 100-
	Sonemes, stemed, dorn, bgs., ol., bone prosphala, defiliprotes, defiliprotes, dorn, bgs., ol., bone prosphala, defiliprotes, def			imp., cryst., arhyd., po
	Sone prosphete, defluorinated of arm phosphete, defluorinated of arm phosphete, practic (see Culti-	e (800 De	luorinated	Calamine, USP, drifts
-	Bore prospirate). Bore prospirate precip, (see Calcium pinches, phys.,	hosphate tri	basic).	Calamos of, dris; Osigifarol, (see Ergocaldis Calamos acatate, quality
1	Dik of ton	847 CA		. Calabara analata matic.

DOTES, LECT., CIET., CACEBURGES			
Bores, tech., gran., decenydrate, 991/% bgs., a.l., works ton	237.00		Calcium carbid
tech., pentahydrata, cran coulsy	192.00	5	bulk, o Calcium carbo
	265.00	_	mesh,
butk, c.l., works ton Borax, NF (See Sodium borate).	220.00	-	works sturries,
C.I., Works	814.00		72% so
bulk, c.l., works ton Boron trichloride, CP, 1,800-lb. cyfs.,	569,00	Ξ	quickfime,
WEXEN.	3.80	_	Calolum carbo
Works Cyla., Ll., Lo.b.	4.03	_	Calcium carb
Boron trilliporide, etherate, 500.1b	8,47	-	d.11
dms., 1.1., 1.o.b., workslb. phenolate, 5004b. dms., t.l., same	2.35	_	Galcium carbo
Cass lb	1,65	_	precip. den
bulk, 45,000-lb, min, works	.87 .33	-	ulira:
DUTTE. 1.1. CIVI. 16	~=	.341/2	Calcium chlorid
Bromine divd., prices for dms. and bulk of c. per-lb. higher. Bulk t.L. price			80%
higher for 15,000-lb, min.	d 4c. to 5	acper-b.	100-lb.
Bromochloromethane, drns., c.l., l.o.b. Midland	1 12		beets anhyd., 94-6
bulaciene, lanks, I.o.h	1,12 .12%	.13	0.L. #
1,4-Butanediol, tanka, I.c.b., irt. equald	.60	_	80-lb. bgs brining grad
Butene-1, tents, 1.0.b. works th	.88 .26	.98	Caldum chien
n-Butyl scetate, syn., tanka, frt. ald.lb. n-Butyl scrylate, lanke, frt. alld. E lb.	.621/2	-	45% same
n-Butyl alconor, Byn., lerment, tanke.	.69	-	Caldum chlor dma.,
irt. skd	.34	-	Calcium citra 10,00
tert-Butyl alcohol, syn., tanka, divd. E			Work
Butyl Bidehyda (see Butyraidehyda)	.70	-	Caldum cyar dma.
Butyl benzyl phthelate, lanks, fri.	.59	_	Calcium gluco
Butyl chroride, tanks, works	.99	1.00	Calcium hyd
01V0	.74	-	Calcium hyp
n-Butyl sther, dma, c.l., t.l., workslb. Butyl isodscyt phthalete, tanks,	1.86	-	lee .
n-Butyl lactata, fanka, f.o.b. works . lb.	.35 1.58	-	Calcium hypo 5001
n-Butylittnium, 15% aoin., 1,000-ib.			Calcium lod
lots or more cyla, 100% basis divd	15.45	-	Calcium lod
ulva	14.75	-	Calcium lecte
Butyl methocrylate, tenks, fri.	.88		drate
BUTY OCTY PRIMILETE, LENKS, CIVO.			NF, gran.,
Butyl oleste, dist., dms., c.i	.40 .70	.42	epecial grad
tanka	.60 .70	.75 -	Calcium naph
Butyl phthalata (see Dibutyl phthalata). Butyl stearate cosmetic, dma., 77 dms.			d-Celclum p
or more	.91 .82	.97	di-Calcium p
Butylstearate jech., t.l	.60	.82	I.o.b
Butylamina (see Mono-,Di- and Tributy)	.55 amine).	.58	di-Calcium pe
tert-Butytamine, dma., c.l., 1.t., l.o.b. works	1,31	_	rida
tenks, same basis	1.17	-	500
dme., dlvdlb.	8.60	8.86	Calcium ph
Sutylated hydroxytolusne, lood, leed			f.o.b
grades, c.l., I.l., bgs., dvd., lb.	1.24	1.30	
grades, c.l., I.l., bgs., dvd., lb. tech., bgs., cl., t.l., dvd., b.	1.24 1.24	1,30 1,30	Calcium phos USP
grades, c.l., I.l., bgs., dvd., jb. tech., bgs., c.l., t.l., divd.,, ib., 1,3-8utylene glycol, tanks, dvd.,, ib. Butyratdehyde, tanks, dvd.,, ib.	1.24 .72 .29%		Calcium phos
grades, c.l., I.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd. 1,3-8utylene glycol, tanks, dwd lb. Butyleadehyde, tanks, dwd lb. Butyle acid, tanks, lt. alid lb. Butyle acid, tanks, lt. alid lb. Butyle acid, terf (see Ethyl butyrate).	1.24 .72 .29V .44V	1,30	Calcium phos USP squa anhyd., U3 dentifice pr
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dlwd., bb. 1,3-8utylene glycol, tanks, dwd., ib. Butyratehyde, tanks, dwd., ib. Butyric acid, tanks, irt. alid., ib. Butyric ather (see Ethyl butyrate), Sulvydestone tanks, i.o.b., plant., ib.	1.24 .72 .29% .44%	1,30	Calcium phos USP eque anhyd., U3 dentifice gr Calcium ph mon
grades, c.l., I.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd. 1,3-8utylene glycol, tanks, dwd lb. Butyleadehyde, tanks, dwd lb. Butyle acid, tanks, lt. alid lb. Butyle acid, tanks, lt. alid lb. Butyle acid, terf (see Ethyl butyrate).	1.24 .72 .29V .44V	1,30	Calcium phos USP equi anhyd., U3 dentifice gi Calcium ph mon bgs.
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dlvd	1.24 .72 .291/2 .441/2 1.20	1,30	Calcium phos USP eque anhyd., U3 dentifice gr Calcium ph mon bgs. eque anhyd., fr
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dlvd	1.24 .72 .291/2 .441/2 1.20	1,30	Calcium phos USP equa anhyd., U3 dentifice gr Calcium ph mon bgs. equa anhyd., fr iss. Irtbasic, Ni
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dlvd	1.24 .72 .291/2 .441/2 1.20	1,30	Calcium phos USP sque anhyd., U3 dentifice gr Calcium ph mon bgs. enhyd., fr
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dlvd	1.24 .72 .291/2 .441/2 1.20	1,30	Celclum phos USP eque enhyd., U3 dentifice gr Celclum ph mon bgs. equa enhyd., fr ss Irbasic, Ni equa Celclum prop
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dlwd., ib. 1.3-Butyriden glycol, tanks, dwd., ib. Butyridenyde, tanks, int. atid., ib. Butyrid ather (see Ethyl butyrate), Sutyrolatione, tanks, i.o.b. plant., ib. n-Butyrionitrie, dma., c.l., dwd., ib. tanks, dwd., ib.	1.24 .72 .291/2 .441/2 1.20	1,30	Calcium phose USP eque annyd. US eque annyd. US dentifice gr Calcium phose eque annyd., it sis Iribasic, Ni Calcium propor or ny Calcium sific. work
grades, c.l., I.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd. 1,3-8utylene glycol, tanks, dwd. 1,5-Butyleade tyde, tanks, dwd. 1b. Butyleade tyde, tanks, it. ald. 1b. Butyleade tyde, tanks, it. ald. 1b. Butyleade tyde, tanks, it. ald. 1b. Butyleather (see Ethyl butylate), Sutyrolatione, tanks, i.o.b. plant. 1b. 1b. 1b. 1canks, dlvd. 1canks, dlvd	1.24 .72 .29 W .44 W 1.20 .03 .54	1,30	Calcium phos USP eque anhyd., US dentifice gr Calcium pho sanhyd., Irtbasic, Ni equa Calcium prop or m Calcium sites Calcium sites Calcium sites Calcium sites Calcium sites Calcium sites Calcium sites Calcium sites
grades, c.l., l.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd., lb. 1.3-8utylene glycol, tanks, dwd., lb. Butyric acid, tanks, irt. atid., lb. Butyric acid, tanks, irt. atid., lb. Butyric acid, tanks, irt. atid., lb. Butyric ather (see Ethyl butyrate). Sutyrolactone,tanks, i.o.b. plant., lb. n-Butyronitrie, dma., c.l., dwd., lb. Cadmium chloride, purili, cryst., 100- lb. dms., 1.l., works., lb. Cadmium, CP, red, dark shade, bbts.,	1.24 .72 .291/2 .441/2 1.20	1,30	Calcium phos USP eque anhyd., U3 dentifice gr Calcium pho equa anhyd., fr sis., Irtbasic, Ni equa Calcium prop or m Calcium sifica
grades, c.l., l.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd., lb. 1.3-8utylene glycol, tanks, dwd., lb. Butyric acid, tanks, irt. atid., lb. 18-butyric acid, lb. 18-but	1.24 .72 .29 w .44 w 1.20 .03 .54	1,30	Calcium phos USP eque anhyd., U3 dentifice gr Calcium pho sanhyd., fr sis Irtbasic, Ni equa Calcium prop or m Calcium site Calcium site
grades, c.l., l.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd., lb. 1.3-8utylene glycol, tanks, dwd., lb. Butyric acid, tanks, irt. atid., lb. 18-butyric acid, lb. 18-but	1.24 .72 .29 W .44 W 1.20 .03 .54	1,30	Calcium phose USP eque annyd., US dentifice gr Calcium phose eque annyd., I stat. Iribasic, Ni Calcium sites work Calcium sites work Calcium sites can sites Calcium sites work Calcium sites can site can site sites si
grades, c.l., l.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd., lb. 1.3-8utylene glycol, tanks, dwd., lb. Butyric acid, tanks, lrt. atid., lb. n-Butyric acid, tanks, lob., plant., lb. n-Butyric atid, dms., c.l., dwd., lb. tanks, dlwd., lb. Cadmium, chloride, puril, cryst., 100- lb. dms., 1.l., works., lb. Cadmium, CP, red, dark shade, bbts., 100-lb., lots, frt. atid., E. of Rockles, lb., same basis, lb. madtum shade, bbts., same basis lb.	1.24 .72 .29 /4 .44 /2 1.20 .03 .54 3.73	1,30 .38 - - - 15,35 12,96	Calcium phose USP eque anhyd., U3 dentifice gr calcium phose eque anhyd., fr sis Irrbasic, irrbasic, irrbasic, work Calcium site. Calcium site. Camphor, an kgs Camphor, s so Camphor, s 5.000
grades, c.l., l.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd., lb. 1.3-8utylene glycol, tanks, dwd., lb. Butyric acid, tanks, lrt. atid., lb. n-Butyric acid, tanks, lob., plant., lb. n-Butyric atid, dms., c.l., dwd., lb. tanks, dlwd., lb. Cadmium, chloride, puril, cryst., 100- lb. dms., 1.l., works., lb. Cadmium, CP, red, dark shade, bbts., 100-lb., lots, frt. atid., E. of Rockles, lb., same basis, lb. madtum shade, bbts., same basis lb.	1.24 .72 .29 /4 .44 /2 1.20 .03 .54 3.73 11.33 9.18 10.69	1,30 .38 	Calcium phose USP eque anhyd., US eque anhyd., Id dentifice gr Ca iolium phose eque anhyd., fc sis. Irbasic, Ni squa Calcium sitica Calcium sitica Calcium sitica Calcium sitica Calcium sitica Camphor, n kgs. Camphor, sy tb. iol. USP, pon tb. iol. eym, raid, 1
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd. 1,3-8utylene ghycol, tanks, dwd., ib. Butyric acid, tanks, irl., alid., ib. Butyric acide, tense, i.o.b. plant., ib. n-Butyric acide, dms., c.l., divd., ib. tanks, divd., ib. Cadmium chloride, puril, cryst., 100- ib. dms., i.l., works., ib. Cadmium, CP, red, dark shade, bbts., 100-ib., lots, frt., slid., E. of Rockles, bbs., same basis., ib. Cadmium, CP yellow, sli shades, bbts., 100-ib., lots, frt., slid., E. of Rockles, bb. Cadmium, CP yellow, sli shades, bbts., 100-ib., lots, frt., slid., E. of Rockles, bb.	1.24 .72 .29 /4 .44 /2 1.20 .03 .54 3.73 11.33 9.18 10.69	1,30 .38 	Calcium phose USP eque annyd., U3 dentifice graph of the calcium phose of the calcium sites. Calcium sites work Camphor, NF, Lo.b. Camphor, sy 5,000 USP, postulo, io. ioi. syn., raid., ioi. s
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd., ib. 1.3-8utylene glycol, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric acid, tanks, irt., olivid., ib. tanks, divd., ib. Cadmium, CP, red, dark shade, bits., 100-lb. lots, frt. atid., E. of Rockles. Dedmun, CP yellow, all shades, bbts., atid. 100-lb. lots, frt. atid., E. of Rockles. Cadmium furborate, liq., cono., dms., t.l., works, irt. equald b. Cadmium furborate, liq., cono., dms., t.l., works, irt. equald b.	1.24 .72 .29 /4 .44 /2 1.20 .03 .54 3.73 11.33 9.18 10.69 10.28	15.35 12.06 15.20 14.50	Calcium phos USP eque enhyd. US dentifice gr Calcium phos eque anhyd., fc sis Iribasic, Ni Calcium sitics Ca
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., cl., divd. 1,3-8utylene ghyot, tanks, dwd., ib. Butyric acid, tanks, irl., alid., ib. Butyric acid, tanks, irl., b., plant., ib. n-Butyric acid, ems., irl., b., plant., ib. n-Butyric acid, dms., c.l., divd., ib. tanks, divd., ib. Cadmium chloride, puril, cryst., 100- ib. dms., il., works., ib. Cadmium, CP, red, dark shade, bbts., 100-ib., lots, frt., slid., E. of Rockles, isame basis, ib. Cadmium, CP yellow, sli shades, bbis., 100-ib., lots, frt., slid., E. of Rockles, ib. Cadmium, CP yellow, sli shades, bbis., 100-ib., lots, frt., slid., E. of Rockles, ib. Cadmium, CP yellow, sli shades, bbis., 1, works, frt., squald., ib. Deckles, il., squald., ib. Deckles, il., squald., ib. Deckles, same basis, il., squald., ib.	1.24 .72 .29 /4 .44 /2 1.20 .03 .54 3.73 11.33 9.18 10.68 10.26	15.35 12.06 15.20 14.50	Calcium phose USP eque annyd., U3 dentifice grannyd., for sister. Intbasic,
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., cl., divd. 1,3-8utylene ghyot, tanks, dwd., ib. Butyric acid, tanks, irl., alid., ib. Butyric acid, tanks, irl., b., plant., ib. n-Butyric acid, ems., irl., b., plant., ib. n-Butyric acid, dms., c.l., divd., ib. tanks, divd., ib. Cadmium chloride, puril, cryst., 100- ib. dms., il., works., ib. Cadmium, CP, red, dark shade, bbts., 100-ib., lots, frt., slid., E. of Rockles, isame basis, ib. Cadmium, CP yellow, sli shades, bbis., 100-ib., lots, frt., slid., E. of Rockles, ib. Cadmium, CP yellow, sli shades, bbis., 100-ib., lots, frt., slid., E. of Rockles, ib. Cadmium, CP yellow, sli shades, bbis., 1, works, frt., squald., ib. Deckles, il., squald., ib. Deckles, il., squald., ib. Deckles, same basis, il., squald., ib.	1.24 .72 .29 \(\frac{4}{4}\) 1.20 .03 .54 1.33 9.18 10.69 10.28 8.10 2.27	15.35 12.06 15.20 14.50	Calcium phose USP eque annyd. USP eque annyd. US dentifice gr Calcium phose annyd., fr sis Iribasic, Ni sis Iribasic, Ni sis Calcium sitica calcium
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd., ib. 1.3-8utylene glycol, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. n-Butyric acid, tanks, irt. atid., ib. n-Butyric ating, dws., c.l., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., ib. ight shade, bbis., same bases, ib. Cadmium, CP, reicw, sil shades, bbis., nearle basis, ib. Cadmium, CP, reicw, sil shades, bbis., ib. Cadmium fluoborate, liq., cono., dms., il., works, irt. equald., ib. medium-tight shade, bbis., same basis., c.l., works, irt. equald., ib. medium-tight shade, bbis., same basis., cadwium-receivy lithopone, marbon shade, bbis., same basis.	1.24 .72 .29 \(\frac{4}{4}\) 1.20 .03 .54 1.33 9.18 10.69 10.28 8.10 2.27	15.35 12.06 15.20 14.50	Calcium phose USP eque annyd., US dentifice gr calcium phose services annyd., I calcium sites work Camphor, sy 5,000 USP, posto, b. tot sym., raid., ju., b. tot sym., raid., ju., b. tot camphor oil., writte, dam., apec, grav., Canunga oil, ic Candella wa., Candella wa
grades, c.l., I.l., bgs., dwd., lb. tech., bgs., c.l., t.l., dlvd., lb. 1,3-8utylene ghycol, tanks, dwd., lb. Bubyredehyde, tanks, irt. alid., lb. Bubyredehyde, tanks, irt. alid., lb. Butyro ather (see Ethyl bubyrate). Sutyrolactone, tanks, ir. o.b. plant., lb. n-Bubyronitrie, dms., c.l., dwd., lb. tanks, dlvd., lb. Edmium chlorkie, puril, cryst., 100-lb. dms., t.l., works., lb. Cadmium, CP, red, dark shade, bbfs., 100-lb., lots, irt. alid., E. of Rockies., lb. Cedmium, CP yellow, all shades, bbls., asme basis., lb. Cedmium, CP yellow, all shades, bbls., 100-lb. lots, irt. alid., E. of Rockies., lb. Cadmium, CP yellow, all shades, bbls., lb. Cedmium, tuboborate, liq., cono., dms., t.l., works, irt. equald., lb. medium-flight shade, bbls., same basis. Cedmium-mercury lithopone, marbon shade, bbls., frt. alid., E. of Rockies. fb. Cedmium metal ingots or aticks, ton	1.24 .72 .29 \(\frac{4}{4}\) 1.20 .03 .54 1.33 9.18 10.69 10.28 8.10 2.27 3.22	15.35 12.06 15.20 14.50	Calcium phos USP eque anhyd., U3 dentifice gr calcium ph squa anhyd., fr sis Irtbasic, in equa Calcium sifice work Calcium sifice work Calcium sifice camphor, sy Lo.b Camphor, sy Lo.b Camphor, sy Lo.b Camphor oil, y white, dma. apec, grav., Canango oil, in Cample oil, y cando aide wor refd, pure, b Cample oil, sy cando aide wo refd, pure, b Caprio aide wo capio aide wo capio aide wo capio aide oil capio ai
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd., ib. 1,3-8 tryleine glycol, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric acid, tanks, irt. atid., ib. Butyric atid, tanks, irt. atid., ib. Butyric atid, tenks, i.o.b. plant., ib. n-Butyric atin, dwd., ib. Sutyric atid, tenks, i.o.b. plant., ib. n-Butyric atin, dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., atin, dwd., ib. Cadmium, CP, red, dark shade, bbts., atid, ib. iight shade, bbts., same basis, ib. medium-light shade, bbts., same basis. B. Cadmium, CP yellow, all shades, bbts., atid, ib. Cadmium functions, if, cono., dms., il., works, it, equald., ib. medium-light shade, bbts., same basis. Cadmium functions, it, acid., ib. Cadmium functions, if, cono., dms., il., works, it, equald., ib. medium-light shade, bbts., same basis. Cadmium functions, if, cono., dms., il., works, it, equald., ib. medium-light shade, bbts., same basis. Cadmium functions, if, cadmium functions, it, alid. E. of Rockies. Cadmium metal ingots or sticks, ton lots, os, divd., ib. Cadmium retal ingots or sticks, ton lots, os, divd., ib. Cadmium retal ingots or sticks, ton lots, os, divd., ib., cadmium strate, puril., fiske 400-lb. Cathern, retal, il., il., il., b. ship, pt.b.	1.24 .72 .29 \(\frac{4}{4}\) 44\(\frac{4}{2}\) 1.20 .03 .54 1.20 .03 .54 3.73 11.33 9.18 10.69 10.28 8.10 2.27 3.22 4.60	15.35 12.06 15.20 14.50 7.07	Calcium phose USP eque annyd. USP eque annyd. US dentifice gr by the second annyd. It basic, Ni the second annyd. It basic, Ni the second annyd. Calcium sitios work Camphor, sy the second calcium sitios work Camphor, sy the second calcium sitios work the second calcium sitios work witte, dms. spec. grav. Canango oil, it Camphor oil, y canango oil, it c
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd., ib. 1,3-8utylene ghycol, tanks, dwd., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt., alid., ib. 1-Butyric acid, ib. 1-Butyric	1.24 .729 /44/2 1.20 .03 .54 1.20 .03 .54 11.33 9.18 10.69 10.28 8.10 2.27 3.22 4.60 1.20	1,30 .38 	Calcium phose USP eque annyd., US dentifice gr calcium phose services annyd., I dentifice gr calcium site. Work Camphor, 99 5,000 USP, pon lb. lot. Camphor oil., Writte, dam. apec. grav., Canunga oil, ic Candelita was refd. pure, b Caprio adolt, or tanks
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd., ib. 1,3-8 triyleine ghyot, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric acid, tanks, irt. atid., ib. Butyric atid, tanks, irt. atid., ib. Butyric atid, fisher (see Ethyl butyrate). Sutyrolatione, tanks, i.o.b. plant., ib. n-Butyrolatine, dms., c.l., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., atid., ib. Cadmium, CP, red, dark shade, bbts., atid., ib. Cadmium, CP yellow, sil shades, bbts., modum-light shade, bbts., same basis. ib. Cadmium, CP yellow, sil shades, bbts., atid., ib. Cadmium, CP yellow, sil shades, bbts., atid., ib. Cadmium tuoborsts, liq., cono., dms., cl., works, irt. atid., ib. Cadmium tuoborsts, liq., cono., dms., cl., works, irt. equald., ib. medium-light shade, bbts., same basis. Cadmium tuoborsts, liq., cono., dms., cl., works, irt. equald., ib. medium-light shade, bbts., same basis. Cadmium tuoborsts, liq., cono., dms., cl., works, irt. equald., ib. Cadmium-selenide-lithopone, marbon shade, bbts., ton lots, os., divd., ib. Cadmium-selenide-lithopone, orange, light shade, bbts., 400-lb. lots, fit., alid. E. of Rockies.	1.24 .72 .29 \(\text{.44} \) 1.20 \(\text{.03} \) 54 1.20 \(\text{.03} \) 54 3.73 11.33 \(\text{.18} \) 10.68 10.68 10.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97	1,30 .38 	Calcium phose USP eque annyd., US dentifice gr calcium phose sent property annyd., It best., Inbasic, Ni., Inbasic
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1,3-8utylene ghyot, tanks, dwd., ib. Butyler acid, tanks, irt. atid., ib. Butyler acid, tanks, irt. atid., ib. Butyler ather (see Ethyl butylers), Sutyrolactone, tanks, i.o.b. plant., ib. n-Butyler ather (see Ethyl butylers), Sutyrolactone, tanks, i.o.b. plant., ib. n-Butyler ather (see Ethyl butylers), Ib. blants, c.l., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., 100-lb. lots, irt. atid., E. of Rockies, ib. Cadmium shade, bbts., same basis., ib. Cadmium light shade, bbts., same basis., ib. Cadmium, CP yellow, all shades, bbts., 100-lb. lots, frt. atid., E. of Rockies, ib. Cadmium stubborate, liq, cono., dms., Ll., works, frt. equald., ib. medium-light shade, bbts., same basis., ib. Cadmium-meroury lithopone, marbon stade, bbts., frt. atid. E. of Rockies, ib. Cadmium-setenide-lithopone, marbon stade, bbts., putil., flake 400-lb. Cadmium-setenide-lithopone, ovange, fit, atid. E. of Rockies., ib. Cadmium-setenide-lithopone, red, dark.	1.24 .729 /44/2 1.20 .03 .54 1.20 .03 .54 11.33 9.18 10.59 10.28 8.10 2.27 3.22 4.60 1.20 2.10	1,30 .38 - - - 15.35 12.06 15.20 14.50 7.07 - 1.50 - 4.00 4.50	Calcium phose USP eque annyd., US dentifice gramphor, or mon Calcium sites work Camphor, or mon to to eyn., raid., 15.00 Camphor of J., writte, dma appe., graw, Cananga oil, in Candellia woweld, pure, is Caprio acide, or tanks Caprio acideny cons
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd., ib. 1,3-8utylene ghycol, tanks, dwd., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt., blant., ib. n-Butyric acid, tanks, irt., blant., ib. h-Butyric acid, tanks, irt., alid., ib. tanks, divd., ib. Cadmium chlorkie, puril, cryst., ib. Cadmium, CP, red, dark shade, bbts., in. Gel, ib., iots, irt., alid., E. of Rockles., ib. Cadmium, CP yellow, all shades, bbts., ib. Cadmium fluoborata, liq., cono., dms., il., works, irt., equald., ib. Cadmium fluoborata, liq., cono., dms., il., works, irt., equald., ib. Cadmium retrate, puril., flake, 400-lb., drs., os., divd., ib. Cadmium selenide flitopone, orange, light shade, bbts., same basis., ib. Cadmium-selenide flitopone, red, dark ahade, bbts., same basis., ib. Cadmium-selenide flitopone, red, dark ahade, bbts., same basis., ib.	1.24 .72 .29 \(\text{.44} \) 1.20 \(\text{.03} \) 54 1.20 \(\text{.03} \) 54 3.73 11.33 \(\text{.18} \) 10.68 10.68 10.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97	1,30 .38 	Calcium phose USP equa anhyd., US dentifice grant anhyd., If dentifice grant anhyd. Calcium affect grant anhyd., If dentifice grant gra
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., divd., ib. 1,3-8utylene glycol, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric acid, tanks, irt., atid., ib. Habyrocitrie, dms., c.l., dwd., ib. tanks, dwd., ib. Lanks, dwd., ib. Cadmium, CP, red, dark shade, bbfs., 100-ib., lots, irt. atid., E. of Rockies., ib. mactum-light shade, bbfs., same basis., ib. Cadmium, CP yellow, all shades, bbis., atid., E. of Rockies., ib. Cadmium, CP yellow, all shades, bbis., ib. Cadmium, CP yellow, all shades, bbis., atid., ib. Cadmium, CP yellow, all shades, bbis., ib. Cadmium, tuboborate, liq. cono., dms., i.l., works, irt. equald., ib. medium-light shade, bbis., same basis., ib. Cadmium-mercury lithopone, marcon shade, bbis., frt. atid. E. of Rockies., ib. Cadmium-selenide-lithopone, orange, light shade, bbis., same basis., ib. Cadmium-selenide-lithopone, orange, light shade, bbis., same basis., ib. Cadmium-selenide-lithopone, orange, light shade, bbis., same basis., ib. Cadmium-selenide-lithopone, red, dark shade, bbis., same basis., ib. Cadmium-selenide lithopone, red, dark shade, bbis., same basis., ib. Cadmium-selenide lithopone, red, dark shade, bbis., same basis., ib. Ib. Ib. Cadmium-selenide lithopone, red, dark shade, bbis., same basis., ib. Ib. Ib. Ib. Ib. Islands, bbis., same basis., ib. Ib. Islands, same basis., ib. Ib. Islands, bbis., same basis., ib. Illands, bbis., same basis., ib.	1.24 .72 .29 /4.44/2 1.20 .03 .54 1.20 1.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 8.77 5.27	1,30 .38 15,35 12,96 15,20 14,50 7,07 1,50 4,00 4,50 8,80	Calcium phose USP equa annyd., US dentifice grant annyd., Id dentifice grant annyd., If the selection are calcium area cal
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., tl., divd., ib. 1,3-8utylene ghyot, tanks, dwd., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt., alid., ib. Butyric acid, tanks, irt., alid., ib. Butyric acid, tanks, irt., alid., ib. Is. Butyric acid, tanks, irt., alid., ib. Cadmium, CP, red, dark shade, bbts., ib. Cadmium, CP, red, dark shade, bbts., same basels., ib. Cadmium, CP, yellow, all shades, bbts., alid., ib. Cadmium, CP, yellow, all shades, bbts., it., works, irt., alid., ib. Cadmium, CP, yellow, all shades, bbts., ib. Cadmium, CP, yellow, all shades, bbts., ib. Cadmium shade, bbts., same basels., ib. Cadmium, tuborate, ilq, cono., dms., il, works, irt., equald., ib. Cadmium, tuborate, ilq, cono., dms., il, works, irt., equald., ib. Cadmium, selenide littopone, marcon etsade, bbts., same basels., ib. Cadmium-selenide littopone, orange, light shade, bbts., same basels., ib. Cadmium-selenide littopone, red, dark shade, bbts., same basels., ib. Cadmium-selenide littopone, red, dark shade, bbts., same basels., ib. Cadmium-selenide littopone, red, dark shade, bbts., same basels., ib. Cadmium-selenide littopone, red, dark shade, bbts., same basels., ib. Cadmium shade, bbts., same basels., ib.	1.24 .729 /44/2 1.20 .03 .54 1.20 .03 .54 1.33 9.18 10.69 10.26 8.10 2.27 3.22 4.60 1,20 2.10 3.97 4.47 8.77 5.27 5.72 6.37	1,30 ,38 	Calcium phos USP eque enhyd., U3 dentifice gr calcium ph bgs. Irtbasic, if equa calcium site. vork Calcium site. camphor, sp. 6,000 USP, pon to. tot syn., raid., 1 b. tot camphor oil. y write. dms. apsc. grav., Cannopa oil. Candella was reid. pure, b Caprio adde, or cancella was reid. pure, b Caprio adde, or caprio a
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1.3-8utylene ghyot, tanks, dwd., ib. Butyler acid, tanks, irt. atid., ib. Butyler acid, tanks, irt. atid., ib. Butyler ather (see Ethyl butylerate). Sutyrolatione, tanks, i.o.b. plant., ib. n-Butyrolatione, tanks, i.o.b. plant., ib. cadmium, CP, red, dark shade, bbts., 100-lb. lots, frt. atid., E. of Rockles., ib. ight shade, bbts., same basis., ib. medium-light shade, bbts., same basis. Cadmium tuoborate, liq, cono., dms., c.l., works, frt. atid., E. of Rockles., ib. Cadmium-selenide-lithopone, marbori shade, bbts., frt. atid. E. of Rockles., ib. Cadmium-selenide-lithopone, orange, ight shade, bbts., same basis., ib. cadmium-selenide-lithopone, red, dark shade, bbts., same basis., ib. ight shade, bbts., same basis., ib. incoun shade, bbts., same basis., ib. incoun shade, bbts., same basis., ib. incoun shade, bbts., same basis., ib. medium shade, bbts., same basis., ib. incoun shade, bbts., same basis., ib. cadmium-salenide lithopone, velow, as	1.24 .72 .29 /4 /4 /2 1.20 .03 .54 1.20 3.73 11.33 9.18 10.69 10.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 8.77 5.27 6.37 7.44	1,30 ,38 	Calcium phose USP eque annyd. USP eque annyd. US dentifice gr calcium phose sannyd., in sis Iribasic, Ni Iribasic, Iribasi
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1,3-8 trytene ghrod, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric acid, tanks, irt., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., 100-lb., lots, frt. atid., ib. Godinium shade, bbts., same basis., ib. medium-light shade, bbts., same basis. Cadmium tuoborate, liq., cono., dms., t.l., works, frt. atid., ib. medium-light shade, bbts., same basis., ib. Cadmium tuoborate, liq., cono., dms., t.l., works, frt. atid., ib. medium-light shade, bbts., same basis., ib. Cadmium-setenide-lithopone, orange, light shade, bbts., same basis., th. atid., ib. Cadmium-setenide-lithopone, orange, light shade, bbts., same basis., ib. Cadmium-setenide-lithopone, red, dark shade, bbts., same basis., ib. Godinium-setenide-lithopone, velow, sameous shade, bbts., same basis., ib. Cadmium-setenide-lithopone, velow, sameous shades, bbts., same basis., ib.	1.24 .729 .4442 1.20 .03 .54 1.33 9.18 10.58 8.10 2.27 3.22 4.60 1.20 2.10 .3.97 4.47 5.27 6.72 .6.72 7.47	1,30 ,38 	Calcium phose USP eque anhyd., U3 dentifice gr calcium phose squa anhyd., if sis Irrbasic, if sis Is Irrbasic, if sis Is
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1,3-8 trytene ghrod, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric acid, tanks, irt., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., 100-lb., lots, frt. atid., ib. Godinium shade, bbts., same basis., ib. medium-light shade, bbts., same basis. Cadmium tuoborate, liq., cono., dms., t.l., works, frt. atid., ib. medium-light shade, bbts., same basis., ib. Cadmium tuoborate, liq., cono., dms., t.l., works, frt. atid., ib. medium-light shade, bbts., same basis., ib. Cadmium-setenide-lithopone, orange, light shade, bbts., same basis., th. atid., ib. Cadmium-setenide-lithopone, orange, light shade, bbts., same basis., ib. Cadmium-setenide-lithopone, red, dark shade, bbts., same basis., ib. Godinium-setenide-lithopone, velow, sameous shade, bbts., same basis., ib. Cadmium-setenide-lithopone, velow, sameous shades, bbts., same basis., ib.	1.24 .729 .4442 1.20 .03 .54 1.33 9.18 10.58 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 5.27 6.72 6.72 7.47	1,30 ,38 	Calcium phose USP eque annyd., US dentifice gr calcium phose annyd., fr sis Irrbasic, irrbasi
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1,3-8 trytene ghrod, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric acid, tanks, irt., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., 100-lb., lots, frt. atid., ib. Godinium shade, bbts., same basis., ib. medium-light shade, bbts., same basis. Cadmium tuoborate, liq., cono., dms., t.l., works, frt. atid., ib. medium-light shade, bbts., same basis., ib. Cadmium tuoborate, liq., cono., dms., t.l., works, frt. atid., ib. medium-light shade, bbts., same basis., ib. Cadmium-setenide-lithopone, orange, light shade, bbts., same basis., th. atid., ib. Cadmium-setenide-lithopone, orange, light shade, bbts., same basis., ib. Cadmium-setenide-lithopone, red, dark shade, bbts., same basis., ib. Godinium-setenide-lithopone, velow, sameous shade, bbts., same basis., ib. Cadmium-setenide-lithopone, velow, sameous shades, bbts., same basis., ib.	1.24 .729 .944 4.442 1.20 .03 .54 1.20 .03 .54 10.59 1	15.35 12.06 15.20 14.50 7.07 - 1.50 - 4.00 4.50 8.80 5.30 5.75 5.40	Calcium phose USP eque annyd., US dentifice gr calcium phose squa snhyd., If these, if these calcium sites work Calcium sites work Calcium sites work Calcium sites, if the these camphor, sy follows, if the these camphor oil, if the these camphor oil if
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1.3-8 triylene ghyot, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric ather (see Ethyl butyrate). Sutyrolactone, tanks, i.o.b., plant., ib. n-Butyronitrie, dms., c.l., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., 100-lb. lots, frt. atid., E. of Rockles, ib. ight shade, bbts., same basis, ib. medium-light shade, bbts., same basis. Cadmium, CP yellow, all shades, bbts., 100-lb. lots, frt. atid., E. of Rockles, it., equald., ib. Cadmium tuoborsts, liq. cono., dms., 1.l., works, irt. equald., ib. medium-light shade, bbts., same basis. Cadmium tuoborsts, liq. cono., dms., 1.l., works, irt. equald., ib. medium-light shade, bbts., same basis. Cadmium-reroury lithopone, marbon shade, bbts., frt. atid. E. of Rockles. Cadmium-setenide-lithopone, orange, ight shade, bbts., same basis., ib. Cadmium-setenide-lithopone, orange, ill, it shade, bbts., same basis., ib. Cadmium-setenide-lithopone, ped, der shade, bbts., same basis., ib. ill, it shade, bbts., same basis., ib. ill, it shade, bbts., same basis., ib. ill, it shade, bbts., same basis., ib. Cadmium satiate, bbts., same basis., ib. Cadmium satiate, bbts., same basis., ib. Cadmium suffate, bbts., same basis., ib. Ca	1.24 .729 .944.442 1.20 .03 .54 1.20 .03 .54 1.33 9.18 10.69 10.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 8.77 5.27 5.72 6.37 7.47 4.05	15.35 12.08 15.20 14.50 7.07 	Calcium phose USP eque annyd, US dentifice grace annyd, US dentifice grace annyd, for the state of the state
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1,3-8 trylene glycol, tanks, dwd., ib. Butyric acid, tanks, irt. atid., ib. Butyric ather (see Ethyl butyrate). Sutyrolactone, tanks, i.o.b. plant., ib. n-Butyronitrie, dms., c.l., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., 100-lb., lots, irt. atid., E. of Rockies, ib. light shade, bbts., same basis, ib. medium shade, bbts., same basis, ib. Cadmium, CP yellow, all shades, bbts., atid., E. of Rockies, ib. Cadmium fluoborate, liq. cono., dms., il., works, irt. atid., E. of Rockies, it., equald., ib. medium-light shade, bbts., same basis, ib. Cadmium-recury lithopone, marbon shade, bbts., fr. equald., ib. medium-light shade, bbts., same basis, ib. Cadmium-recury lithopone, marbon shade, bbts., fr. equald., ib. Cadmium-setenide-lithopone, orange, ight shade, bbts., same basis, ib. Cadmium-setenide-lithopone, yed, darkshade, bbts., same basis., ib. Cadmium-setenide-lithopone, yed, darkshade, bbts., same basis., ib. Cadmium-setenide-lithopone, yed, darkshade, bbts., same basis., ib. Gadmium shade, bbts., same basis., ib. Gadmium shade, bbts., same basis., ib. Gadmium suffise, 60-lb., dms., sny quantity, i.o.b., ship, pt., ib. Cadmium suffise, 60-lb., dms., sny quantity, i.o.b., ship, pt., ib. Cadmium suffise, 60-lb., dms., sny quantity, i.o.b., ship, pt., ib. Cadmium suffise, 60-lb., dms., sny quantity, i.o.b., ship, pt., ib. Cadmium suffise, 60-lb., dms., sny quantity, i.o.b., ship, pt., ib. Caffeles, dom., USP, mn., cryst., sin- hyd, powd., 100-lb., dms., ol., i.i., irt., atid., ib., in., ol., i.i., irt., atid., ib., in., ol., i.i., irt., atid., ib., in., ol., ii., irt., atid., ib., in., ol., ii., irt., atid., ib., in., ol., ii., ii., ii., ii., ii., ii., ii., ii	1.24 .72 .29 \(\frac{4}{4}\) 1.20 .03 .54 1.20 .03 .54 1.33 .9.18 10.69 10.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 8.77 5.27 6.37 7.47 2.97 4.05	15.35 12.06 15.20 14.50 7.07 	Calcium phose USP eque annyd., US dentifice gr calcium phose squa sannyd., If sis Irrbasic, if sis I
grades, c.l., I.l., bgs., dwd., ib. 1,3-8utylene ghrod, tanks, dwd., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt., alid., ib. Cadmium, CP, red, dark shade, bbts., industry, indus	1.24 .729 .4442 1.20 .03 .54 1.20 .03 .54 1.33 9.18 10.59 10.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 8.77 5.27 5.72 6.37 7.47 4.05	1,30 ,38 	Calcium phose uspections of the control of the cont
grades, c.l., I.l., bgs., dwd., ib. tech., bgs., c.l., t.l., dwd., ib. 1.3-8utylene ghyot, tanks, dwd., ib. Butyler acid, tanks, irt. atid., ib. Butyler acid, tanks, i.e.b., plant., ib. n-Butylerotitrie, dms., c.l., dwd., ib. tanks, dwd., ib. Cadmium, CP, red, dark shade, bbts., 100-lb., lots, frt., atid., E. of Rockles., ib. light shade, bbts., same basis., ib. medium-light shade, bbts., same basis. Cadmium tuoborate, liq., cono., dms., t.l., works, frt., atid., E. of Rockles., ib. Cadmium tuoborate, liq., cono., dms., t.l., works, frt., equald., ib. medium-light shade, bbts., same basis., ib. Cadmium mercury lithopone, marbori shade, bbts., frt., atid., E. of Rockles., ib. Cadmium-selenide-lithopone, orange, light shade, bbts., same basis., ib. Cadmium-selenide-lithopone, red, dark shade, bbts., same basis., ib. icht shade, bbts., same basis., ib. icht shade, bbts., same basis., ib. cadmium-selenide-lithopone, red, dark shades, bbts., same basis., ib. icht shade, bbts., same basis., ib. cadmium-selenide-lithopone, red, dark shades, bbts., same basis., ib. icht shade, bbts., same basis., ib. Cadmium-selenide-lithopone, velow, sis shades, bbts., same basis., ib. Cadmium-selenide-lithopone, velow, sis shades, bbts., same basis., ib. Cadmium-selenide-lithopone, orange, light shade, bbts., same	1.24 .72 .29 \(\frac{4}{4}\) 1.20 .03 .54 1.20 .03 .54 1.33 .9.18 10.69 10.26 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 8.77 5.27 5.72 6.37 7.47 2.97 4.05	1,30 ,38 ,38 ,25 ,12,06 ,15,20 ,14,50 ,7,07 ,1,50 ,4,00 ,4,50 ,5,40 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5	Calcium phose USP eque annyd. USP eque annyd. US dentifice gr mon mon bgs. Iribasic, Ni ribasic, Ni ri
grades, c.l., I.l., bgs., dwd., ib. 1,3-8utylene ghrod, tanks, dwd., ib. Butyric acid, tanks, irt. alid., ib. Butyric acid, tanks, irt., alid., ib. Cadmium, CP, red, dark shade, bbts., industry, indus	1.24 .72 .29 4.44 1.20 .03 .54 1.33 9.18 10.59 10.28 8.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 5.27 6.72 6.77 7.47 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.80	1,30 ,38 ,38 ,25 ,12,06 ,15,20 ,14,50 ,7,07 ,1,50 ,4,00 ,4,50 ,5,40 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5 ,5	Calcium phose uspections of the control of the cont

					-
Calcium carbide, std., generator size, bulk, o.L., 1.o.b., works, ton	402.00	_	ALLERAL		
mesh, bas., bulk, I.o.h.			CHEMIC	7 A	
sturries, 54% solids, game	46.00	-		JH	١
72% solide, same basis ton	97,00 109,27	100.00	PRICES		
quickime, gran., Ind., bulk, work-	100,93		DDIFE		
Calcium cerbonate, costed, bgs., c.l., works		1000	"PRIVE		
Calcium cardonala, pracio, has	.0830				_
Caldium carbonate predo, martium.	385.00	445.00	WEEK ENDING OCT 17,	1986	
bgs., c.l., works ton precip. dense. bgs., c.l., surisca	110,00	150.00	Carbon Black, low structure, bulk, c.l.		_
	265.00	-	worksb.	.240 .270	
Calcium chloride, conc., reg. grade, 77-	217,00	225.00	intermediate-super-abraelon (ISAF)b.	.25	
80%, flake, bulk, c.l., workston	102 50		bgs., c.l. worksb., super-abrasion (8 AF), bulk, o.l.,	.28	
100-lb. bgs., cl., same	183.00	-	bgs., a.l., worksib.	.31 .4050	
beets ton anhyd., 84-97%, flake or pellet, bulk,	196,00	-	semi-reinforcing (SRF), bulk, c.i.,	.210	
60-lb. bgs., c.l., same basis ton	217.00 279.00	Ξ	bgs., c.l., works	.240	
brining grade, 80-lb. bags ton Caldium chloride, ilq., 100 percent be-	285.00	-	c.l., works	.30 .32	
45% same back	99.75 118.00	-	finaries	10.50	
ding, t.l., irt. eguald	.90	_	I.o.b. W. coaal refineries bbis. Carbon disulfide. I.c. I.o.b. works ton	10.50 420.00	
Calcium citrate, puril., 200-lb. dme., 10,000 lbs. or more, 1,0.b.		_	Carbon tetrachioride, CP, consumers, drae., c.l., frt. alid	.36	
Worksb	3.82	-	tech., dms., c.l., t.l., frt. ald	.31	
Caldum cyanamide, indust., anhyd. dms., works	400.00	450.00	Carboxymethyl cellulose (see CMC).	.24	
Calcium gluconate, USP powd. t.J ib. Calcium hydrida, lump, dma., 25-	1,60	_	Cardemomoli, NF, bota	65.00 3.00	
1,000-lb, lota, workslb. Calcium hypochlorits, 100-lb, dms	10.60	13.25	green, Gueternelen, bgs ib. Carmine, No. 40, NF, bulk, 100-ib. lots	6.25	
truckloade ship.t. E. of Rock- les 100 lbs.	92,40		or more, divd	135.00	
Calcium hypophoaphile, dma., bulk.		-	low.bgs., lon lote b.	1.95	
500 kilos or more kilo Calcium lodate, FCC dms., 1.o.b.	13.75	14.50	Ceara, No. 1, yellow, bgs., 1on lots	1.75	
Calcium lodide, 50-kilo dms., f.o.b.	5.50	•	North Country, No. 2, refined, bga. ton lote	1.65	
workskilo Calcium lactate, NF, powd., pentahy-	23.65	25.65	Carnsuba wax, North Country No. 3, centriluged, ogs., ton lots. Ib	1.10	
drate, dms., 24,000 lbs. or more, f.o.b. worksb.	2.00	_	North Country, No. 3, refined, bgs., ton lots	1.30	
NF, gran., trihydrate, same basis. Ib. specialgran., dried grads, sams ba-	2.10	-	mean, 20c, per ib, higher,		
als	2.80	•	b-Carotene, in vegetable oil, semil-solid suspension, 400,000 A units		
f.o.b. plant, E. of Rockles, . lb.	,65	-	per gram., 33 lbs. or more lb. b-Carotene, liq. in vegetable oil,	32.75	
d-Celcium pentothenata, USP, 100- 500-kilo lotskilo	11,50	12.50	500,000 A units per gram., 33 lbs. or more	40.75	
di-Calcium pantothenata, feed orade, I.o.b, Irt. alid., 250kilos or			b-Carotene, dry, beeds, 10%, 187,000 A units per gram 50-lb, cns lb.	26.85	
more kilo di-Calcium pentothenate, calcium chlo-	8.00	08.8	d-Carvone, 25-lb. dms., syn. lb.	48.00 7.00	
rida complex, feed grade, 180 grams per lb., I.o.b., frt, alid.,			Cascara eagrads bark, bulk	1.00	
500 lbs or more lb. Calcium phoaphete, dibasic, leed	2.75	-	mesh, Australien, edible, same basis, c.l.f	1.45	
grade, 181/2% P. bulk, c.l., 1.l., f.o.b. works ton			Australian, Indust., same basts.	1,365	
Calcium phosphate, dibasic, dinydrate, USP, bgs., c.l., t.l., works, frt.	220,00	_	Casselfa acid, 303 mol. wt., dms., irt.		
oquald 100 tos.	62.50	-	alid 100% basia	3.70 .95	
enhyd., U3P, aame basis 100 lbs. dentifice grade, same basis60 lbs.	71.75 49.90	-	"B" bgs	.72 .31	
Calcium phosphets, monobeelc, monohydrate, food grade,			VSP 5-9 dma	.74 .78	
bgs., c.l., 1.l., works, fr1. equald 100 lbs.	50.50	-	blown, 5-9 dma	.75 .74	
anhyd., food grade, sama ba- sis100 lbs.	54.95	_	dehydrated, unbodied, tanks lb. Castor of, acids dehydrated, dime lb.	1.1D	
Irthasic, NF precip., bgs., a.t., frt. equald 100 fbs.	62,50	_	ricinoleic acid	.791/2	
Calcium propionate, drns., 2,000 lbs. or more I.o.b. frt. ald lb.	.50	.56	f.o.b., Miami, Fla ton Castoreum, nat., ons	154.00 18.00	
Calcium siticate, hydrated, bgs., o.l.,	.07		eym, ons	11.00	
Cajolum silicate, paint grade (see Wolfar		<u>-</u>	dme., f.o.bkilo. tech., bgs., t.l., same basiskilo.	7.93 8.71	
Calomel, NF, mid powd., 100-b. dms., I.o.b. works	5.50	-	Caustic potash (see Potash, caustic). Caustic soda (see Soda, caustic).		
Camphone chlorinated, 87-59% (see To Camphor, monobromated, dma.,		_	Cedarlesf oil, dmsib. Cedarwood oil, Texas, dma., cnsib.	17.50 3.50	
Cemphor, syn., tech., 185-b. dine.,	3.63	3.70	Virginia	3.70	
5,000 lbs. or more lb. USP, powd., 165-lb. dms., 5,000	1.60	-	Cecryl acetate, cast., cans	5.25 4.25	
to, lots or more	2.36	-	Celery seed shallen, bgsfb. Celery seed oil	.48 80.00	
ib. lots or moreib. Camphor oil, yellow, 25-lb. dina lb.	3.50 2.50	Ξ	Cellulose acciele, powd., bgs., 1.l., dwd. E	1.80	
white, dms	1.50	2.25	Cellulose ecatate butyrate, powd., 17% butryl content, bgs., 1J.,	4	
Cananga oil, Indonesian, dris kilo Candelila wax, crude, bgs ib.	17,00	-	38% butryl content, bgs., dvd. E. lb.	1.75 1. 59	
reid, pure, bgsib.	2.10	.65	60% butryl content, bgs., dwd. E Ib. 65% butryl content, bgs., dwd. E Ib.	1.81 1.63	
Capric acid, comi, pure, dine ib. ianke ib.	.60	.55	Cellulose gum, pure, high vis., bge., 24,000-lb. lots or more works,		
Caprio aldehyde (eldehyde C-10) dme., cns	3.95	5.35	atd., low or mackum via., bos., c.l.,	1.60	
Caprolectemmonomer, flake, bgs., 1.1., f.o.b.shipping pointib.	.57	-,	Cerium concentrate CeO., 60 lbs fb.	1.60 1.35	
moiten, tanks, same basis , ib. Capryl alcohol sec. 82-89% tanks,	.85		works	8.40	•
Convelle acid north pure tanksib.	.35	1.7	77% CeO, dms., works	4.20	
Capalcum (see Pepper, red). Capalcum oil (see Capalcum discretin).			ib. lots or more, divd ib. Cetyl sloohol, NF, ons., o.t., t.l., divd. E. ib.	1.85	
Capelourn elecresin, NF, from dom., papper, dms	11.00	1	Chalk (see Calcium cartionate).	4.25	
NF. Irom Aricen Decider, Otts.		1	Chamomie flowers, Hungarien, cs lb. Roman, cs	4.94	
500,000 pungency	17.00	18.00	Egyptian, whole	2.70	

46% 47% 48%

				
	,		CMC, technical, 96% minimum, low or	Cube root, powd., 5% rote 50-b. bgs., 1.l., w
AHELHA			medium via., bgs., 24,000 lbs., f.o.b. Hopewell, Va., 100%	Cumeria bulk contract, f.
CHEMIC	'AI		hasia	Cumin ased, Indian, bgs Cyanuric acid. dms
UNLIVIL	7:1		detergent makers, t.o.b. manufac- turing point	equald
		— I I	CMC, purit., high vis., (see Caliulose gurn). Coalter pitch, indust., liq., works . ton. 250.00 255.00	hyde content, dm 98.5%., dms.
DDICEC		- 1	roofing 149-155, Federal specifica- tion RP-381 Typs 1, bulk	90-92%, dms
PRICES		11	works ton 350.00	Cyclohexane, bulk, barge Cyclohexanol tech., tanks
		1	Cobalt carbonate, powd., dms., frt.	Cyclohexenone tech., t
WEEK ENDING OCT 17, 1	986	- 1	Cobalt chloride, dms., 5,000 lbs. or	tanka, được
Chlorinated paralilin, Zone 2 prices are 10	per to hi	oher and	more, it. equald	Cyclohexylamine, tech works
Zone 3 prices are 20 per lo. higher	and I.L dr.	m prices	Cobali metal, 99.5-89.9%, 260-kilo. dms., f.o.b. NY, Chicago ib. 11.70 —	
ers 5c per lb. higher Chlorinated rubber, 5, 10, 20 cps., bgs.	4.80	- 1	Cobalt naphthanate, IIq., 8% Co.,	
t.t., divd	1.68 1.82	- 1	Cobalt ribrate dms., Ll., frt, ald lb. 274 3.45	
125 cps., bgs., t.l., divd b. 300 cps., bgs., t.l., divd b.	2.60 2.75	-	Cobalt oxide, Imp., black, 72-78% Cob. 8.51	
Chlorine, tanks single units works.	95.00 2	00.00	Cobalt oxide, imp., 70-71% Co b. 9.78 - Cobalt phosphate powd. 32.1% Co.	
Chioroacatic acid, mono, high purity,		ſ	driss, dvdb. 1.35 - Cobatt resinate lused, 8% Co.,	2,4·D acid, tech., 50-lb.
worksib. 2-Chloro-4-aminotoluene, tech., Iq.,	.56	-	dms	works, frt. squak 2,4-D butyl ester, tech.,
chns., c.t., t.t., l.o.b. works . lb.	1.88	- 1	Cobelt suffate, cryst., bgs., 10,000 lbs. or more, frt. slid. E b. 2.81 3.54	c.l., t.l., works, fr
o-Chioroaniline, iquid, dms., c.i., i.o.b. worksb.	1.63	- [monohydrate, dms., frt. ald, lb. 4.66 5.02 Cobelt tallate, 6% Co., dms., dlvd lb. 2.18 -	2,4-D dimethylemine s
p-Chtoroantine, sold, c.l., t.l., l.c.b. lb.	1.85 1.70	=	Cocillans bark, bis b40 .45 Cocos butter, spot	works, frt. alid Decyl alcohol, mixed isc
flaka, chrs., c.l., same basis b. o Chlorobenzaldehyda, dms., t.i.,	2.00	-	Coconul oil (See Oila, Fe ts & Waxes market report).	divd, perfume arade, dms
p-Chioropanzaidehyde, dms., 2,000	2.45	-	Coconut oil scids, distilled, t.o., f.o.b	Defluorinated phosphati feed grade, 189
ibe. or more, worksfb. o-Chlorobenzoia sold, dms, i.t t wks ib.	3.84 3.90	3.85	double distried, same basisb5463 Cod oil, I.o.b., Gloucester, Mass.,	f.o.b. works
p-Chiorobenzoic scid, dms., 500-lb.	1.68	2.25	bulkgal. 8.60 - Code/ne atkeloid, NF, 25-kilo lots, kilo. 900.00 -	Denatured alcohol, ethyl, tanka, divd. E
lots or more, works 10. Chloroform, tach. tanks, distr. divd ib.	.3415	-	Codeline phoephate, USP, cna., 25-klo lots kilo 640.00 -	NOTE: Tankcar sales re and Tobacco Ta
tech., consumers, tanks, divd ib. NF tanks, min., consumer, 4,000	.3419	- (Codelna aulfete, NF ons., 25-kilo	Denatured alcohol, ethyl,
gals.civd	.35%	-	lots	8D2B, tanks, divd. f 8D3A, tanks, divd. f
modity basis, dms., t.l., t.o.b	3.06	- 1	Copalba oil, cns., dms	SD23A, tanks, dlvd. SD23H, tanks, dlvd.
powd., samo basisib. 4-Chloro-2-nitroanline, pasta, 172.5	8.15	-	Copper scetate, monohydrate, cryst., tech., dms., t.l., works. , . b7174	SD29, tanks, divd. E SD30, tanks, divd. E
moi. wt., commodity basis, dms. 1J., f.o b	2.25	_ '	Copper bromkle, (cupric) 200-lb. dms., 100,000-lbsper-year con-	SD35A, tanks, divd.
powdsame basis	2.70	=	tracts, works	Denatured alcohol, ethyl, i SD40, tanks, clive
o-Chtorophanol, dms., c.l., frt.	2.00	2.40	Copper carbonate, 55% Cu, dark, dense, 50-lb. bgs., cl., tl.,	ethyl, optional formula divd. E
p-Chlorophenol, dms., c.l., irt. equaldib.	1.25	1,70	works	For anhyd, alcohol on a
Chloropicrin, coml., 1,500-lb, cyls., t.l., f.o.b works	1.25	_	works	higher, West Coast dvd. price
Chlorosultonic acid. fanks, irt. equaldb.	.1812		works	except in Idaho differential on ta
p-Chlorotoluane, tech., tanka,	1.00	_	lb, lots or more lb, 230 2.62	Desoxyephedrine hydro
works ib. Cholocalciferol, dry, 40,000,000 units per gram, kilo lote	24.00		Copper fluctionate, (cupric), liq. conc., dme., f.i., works, frt.	drochloride) Detergent alkylate, etre
Choline bitartrete, cryst., 98% min., 50	21.00	_	equald	decylbanzana, I.o.b
kilo dms., f.o.b. 5 pringfield, Mo.,	B.90	-	dm., frt. equald lb. 8.50 - Copper metal electrolytic wire bare.	Dextrin, corn, canary de c.l., works,
Cholino chloride, feed grade, 70% aqueous, i.c., i t., divd. E of			dvd., domestić, bastalb. ,82½ - Copper naphthenate, ltq., 8% Cu.,	white, paper
Rockles	.28 .39	-	drift., frt., elid	Dextross, enlight, co
Choine chlorida, 60% dry supplement, butk hopper cars lb.	.39	_	Copper nitrate (cuprio), purif., Ilake, dms., U., works ib	divd, New York USP speciel, 100
bgs., 50,000 lbs. min	.40	-	Copper olente, solid, 8% Cu. dms., works fra slidb87 —	dlvd. New York
kilo, lots, 1.o.b. Springfield,	6.00		Copper oxide, black (cupite), dms., 60.000 b. lots, worksb. 1.21 -	Dextrose, hydrefed or divd. New York
Moklig. Chokna dhydrogen citrete, 98% min.,	5.00	-	red (cuprous). dms., 87%, USN Type 1, (AA), 80,000-lb. lds,	Olacefone stohol, o
50 kilo lots, I.o.b. Springfield, Mokilo.	5.00	-	worksb. 1.18 1.20	tanks, divd Discetyf, flavor grede, d
Ctvarne green, CP extre light, bgs., divd. E. of Rockles b.	1.68	_	I Copper-8-quinolinolate, 10%, ild.	Diammonium phospha
tght, bgs., same basis b. medium, bgs., same basis b.	1.70 1. 7 2	-	enruision, t.l., civd	min, 18% N, 4 f.o.b, Fla. work
extra deep, CP., same basis	1.74	-	89% bgs., c.l., f.o.b, works 190 lbs. 46.45	Diammonium phosphe 18%N, 20% P
Rockies	.83	.89	CP, pentahydrata, cryst., dms., fol., works	Fla. works
Plochies	1.09	1.18	mononyorated, 35% Cu. dma., c.f.,	bgs., seme basi Diammonium phospha
Chromic scid, 994%, flake dins., c.k., frt. equaldb.	1.18	-	works	C.I., t.I., equald
grd., same basis	1.25	-	Corlander oll, USP, dms ib. 22.00 28.00 Corlander seed Morocoan	food grade, bgs., c.
500-2,000-lb. lois, works lb. Chromium fluorida, dms., 1.t.,	.10	-	Corn oil (See Oils, Fats & Waxes market report).	2.4-Di-fert-amylphono
Chromium nitrate, dms., t.l., I o.b fb.	.81 1.45	=	scid: New York	tanks, works
10% metal som, 500-lb. dina. same basis	.74	.86	Com oil acid, dinsbb	Diarylide yellow, DT, (y
Chromium oxids, hydrated, 50-lb.	5.50	_	Corn syrup 43 8s., tanks, 1.o.b.	0-Dianisidine dihydrod MW 244, dms
pure, bgs., c.l	1.90 1.85	2.00 2.45	Cortisone acetate, USP, dris., 5 kilos	2,8-Di-tert-Butyl-p-Cre
Connamic electrical, 25-tb. cnsib. Connamon, H2b.	4.50 1.05	-	or more	Dibutyl fumerate, works
Cinnamon bark oil, bota	88.00	1.10 95.00	Cottonseed oil, scidulated (soen	Ofbutyl melsato tanks, Dibutyl phthalate, tank
Cinnamon leaf oil, dms	2.70 5.50	5.65	Block), acid, 95%, tenks,	Dibutyl sebacate tanka Dibutylamine, dms., c.
syn., 55-gal. dms. f.o.b. b. b. Citric acid, USP, hydrous, gran., 250-	3.18	-	Cottoniana di acida, dist., dina	tanks, same basis 2-5-Diohioros niline
Citric seid, USP, anhyd., gran, 250-lb.	1.19	-	I Countain, ar X, Cryst., over 600-15.	works
citric scid anhyde, powder bc. higher	.68	-	Cream of tarter (see Potential historical) 8.20	fused, dris., works 3,4-Dichlorospiline, to
Citronella od, Ceylon, dima ib. Java, dims kilo	2.12 5.05	2.24	Lob. works	dms.,c.l.,1.l., o-Dichlorobenzene, te
China, dms. klio Citronellal, 25-lb cens lb.	4.90 3.85	7.40	D-Cresidine fused drive works to 434 1.17	C.l., t.l., divd,,
Citroneitol drums, t.o.b. b. Citroneityl scetato, dms. b.	3.68	7.40	m-Crosol, 95-98%, dma., t.l., Lo.b., jb. 1.71	tanka, same be 98% refd., dms., c.f.,
Citronelly formate, 25-lb, cns lb.	5.50 6.85	8. 50 -	hulk same basis	p-Dichtorobenzene.
Cwat, ariil., bots	20.00 500.00	Ξ	O-Cresci, 98% rute close to to b	tarka, ko, same be
Clay ball, dom. air floated, bgs., c.l., Tenn	49.00	_	98% pure, dms., t.J., f o.b.	2.5-Dichloro-4-nftr
dom , crushed, moisture-repel- ient, bulk, c.i., Tenn ton	24.00	_	p-Cresol 98% dime. el fo b	10,000 lbs. o
Clay China (see Kaoān). Cleaners, naphtha, t 40° flash tanks.,			Creavic acid, costiar, dom, materia	Didyclohexylemine,
Naw Jersey or Naw York, dvdgal	1.40		Content above 25%, resin and	lanks, same basis Dicyclonexyl phtheia
Clove loal oil Indonesian, reg. dms. kilo Madagascar, reg	3.15 3.90	Ξ	investi prosprete grades,	1 (9vd
Cloves Brazil	24.00	-	25% Or less torde by pilk in	Dicyclopentadiane 98%, tanka,
Zonzibarlb.	4.20	2.40	duri	Diethanolemine, tank
Madagascar		2.40	CHYCHILD BYTH , OLIK, O.L., WORKS LOD 510.00 FEO AV	l friellei .
38 CHEMICAL	ЛАЦКЕ	PLONITY	Ggtober 20.1986	

(Qtober 20, 1486

	Cube root, powd., 5% rotenone, basis.		ethyl furbilists acklis lethyl cortionate.
1	Cumpra hulk contract, f.ob		Le trweeks intigliationiclining.
١	Cumin aeed, indian, bgsib. 95 1 00 Cyanuric acid, dme., c.f., t.l. frt. equaldib. t.t6 1 :17		ulka tanks, aliva
١	Cyclamen eldehyde, 50% min. side- hyde content, dms ib. 4.85 -		Destiyi nilograsianung (Setiryi lovajato, dim
1	98.5%, dms	g	ga sik g Pestiyi pirilininto, tank
		25 12 11	Marioss cosmoto Wirks
۱	Cyclohexenone tech., tanks, f.o.b.	l n	lethyl sulfato, tanks . Nethyl throuron, d
١	tanka divd	\ c	Works h-2 ethythoxyl ndypate h-thyt tabanya (o. 05
1	Cyclohexylamine, tech., tanks, worksb85 -	_ I'	holliyt foloamide 195 isomot idmi weeks
۱		_ ^	en tolind: معروبات این این این دانان
		١,	tanka, samo yıd omya, samusiyet Dethyismine, chin sal
1		- 1.	tanks, spirki bijais Liti Diethykanlene, kni
İ		_ [`	waks waks lanks sano hasis .
1	2.4-D acid, tech., 50-lb. bgs., c.l., 1.l.,		Helhylbenzeno, tanks H-2-othyltroxyt azolate
	2.4-D butyl ester, tech., 55-gel. dms.,	` C	01-2-othythoxyl phthal Diethylono glycol, tink
1	c.l., t.l., works, frt. equaldlb. 1.30 - tanks, same basis		Dietliylene Olycol m dms , c l , lit
1	2,4-D dimethylamine salt, t.c., t.t. works, frt. ald gat. 8.05 -	- 1,	tanks, fit elki E Dinthylene glycol m
١	Decyl alcohol, mixed Isomers, lanks, divid,	j	ılmış,ct,hı. ıankış,İrtalid E.
١	perfume grade, dms	'	Diethylene glycol ma drirs., c i . l'rt
١	feed grade, 18% P, c.l., bulk, f.o.b.works	، ۱	tanks, frt alld Diethylene glycol mor
	Denetured alcohol, ethyl, CD18, CD18, tanke, dlvd. E		otate.dms.c tanks.divd E
١	NOTE: Tankcar sales require written authorization by Alc and Tobacco Tax Olvision.	ovor	Diethylene glycol moi eteto, dms , c
1	Denatured alcohol, ethyl, SD2B, tanks, divd. Ega). 1.81 -	- },	tanks, tri alid Diei hylene triamina
	SD3A, tanks, divd. E gal. 1.78V2 - SD23A, tanks, divd. E gal. 1.86 -		works Diethylanetnaming p
	SD23H,tanks, dlvd. E gal. 1.89 - SD29, tanks, dlvd. E gal. 1.83 -		pentasodii tank cars
	SD30, tanks, divd. E gal. 1.72½ - SD35A, tanks, divd. E gal. 1.88½ -		equalized ا. pmi, USP , الاندماني: Digitoxin, USP Digitoxida , dms
	Denatured alcohol, ethyl, brucine formula SD40, tanks, divd. E gal. 1.83 -		Diglycol simulate, dan Diglycol simulate, dan Diflydrazioe sulfafe, d
	ethyl, opfonal formula, 6D40, tanks, divd. E		Diliyakos tinpatetayen Diliyakos tinpatetayen Diliyakos tina
	For anhyd, alcohol on above formulae, prices are 12c po higher.	rgal	works Dissobutylketonin, tr
	West Coast divd. prices ere the same as Eastorn po except in Idaho, Oregon and Weshington where		Disobutyl pirthalato Disobutyloiro, fair
	differential on tankcara is maintained. Desoxyephedrine hydrochloride (See Mathamphetamin	a liy.	ton Di isorloggi pintingiate
	drochloride) Detergent alkylafe, etraight chain do-	}	Di Isononyi phithalate Di Iso octyl naeinte, t
	decylbenzene, tanks, bergos, l.o.b	ł	Di iso octýt pirthalate Di isoprirpanolimine
	Dextrin, corn, canary dark, paper bgs., c.l., works, 100 lbs. 28,04		nikt . Tanks, sowa bosis,
	white, paper bge., c.l., works 100 bs. 27.43		Di Isupropylamina, d Janks, Samo basis Allemed S. S. Beledero
	Dextrose, enhyd., coml., bge., c.l., dlvd. New York 100 lbs. 41.10	.	Dilmry 3,3-thledepro ht did Odral, USP, dins
	USP speciel, 100-lb. bgs., o I., dlvd. New York 100 lbs. 48.50		Dimothyl nothramiate Dimothyl benzyl cor
	Dextrose, hydrefed comi, bgs., c.i., dlvd. New York 100 lbs. 24.25	. {	Dum)thyl carbonate
	Western zone	.	wruks Danolbył dichlorovin
	tanks, divd	00	gat dine., f. Danothyl ethimologi
	Diammonium phosphate, 1ert. grado. min. 18% N, 48% P. bulk, c.i.,	1	e I., divel, E. fniks, illvel, E
	f.o.b. Fie. works fon 140,00 145. Diemmonium phasphete, feod grado,	⁰⁰	filmothyl niltur, Arm divd
		.	Diniothyl pirtinin worka Dinintfryl anliaca
	bgs, earne basis fon 250.00 Diammonium phosphate, foch., bgs.	· \	werks Uninthyl sulfate, re
	c.i., t.i., werks, frt. equald	.	Worke
	sis	.	f shreetryl mulficto, tar I stavetryl sedhexida,
	dms.,e.l., t.f., workslb. 1.04	.	Dimenhyincetarakie. Hiruttiyinmine, 25
	Daryida yallow, DT, (yallow 14), dms.,	-	iκpinkt , 10 40% soln., tarks,
	o-Dianisidine dihydrochloride, 100%, MW 244, dms., t.l., divd ib. 4.25		busin
	2,8-Di-tert-Bultyl-p-Cresol (see Butyla tod hydroxytolunn Dibutyl furnarate, fanks, I.o.b.	0)	N.N. Olmothylanillno
	Dibutyl melasto tanks, f.o.b. works Ib. 63	.85 .64	N.N.Dimothylforma
	Dibutyl sebacate tanks, works Ib	.80 .89	tanka, samo būsi 2,4 Onitrosnilina. k Dinitrosnilino, oran
	tanks, same basis	-	divd. E. of 2,4-Dinifrochlorobe
	works	_	at 47°, I.I
1	3.4-Dichlorosniline, tech, 88%, solid	-	2,4-Dinitrophenol, Charlotte,
3	o-Dichlorobenzene, tech., 80%, done	1.57	Dinitrotoluene, m works
7	tanka, same basis	-	2,4-Dinitrotofuen works
	tanka arma hasis	-	tanks, works Dioctyl adipate, tan
	dma, 1.1.1.0 b. frt envold lib.	.62	Diociyi azelate, tan Diociyi phthalate, l
	2.6-Dichloro-4-nffroaniline dose	.47	Dioctyl sebacats, works
	Dichigrophenoxyscatic politicae 2.4 Pt	-	1,4-Dioxane, lanke 1.I., same basis.
5	top oma, ol, th,	_	Dipentaerythritol, E
	Dicyclohexyl phihelate, har old 1.26.	-	Dipentene sleam Fia. worki sullata turpentii
	Dicyclopentediane, high-purity, 07.	-	Dip oil (see Tar aci Diphenhydramine
	Diethenolemine, tenks, 55 and 50. 35	- .47	l dom 1.9
0	in ald surrays surrais, tanks,		Diphenyf, 99.94 works
	the same of action daily by the sphale).		fanks, works

fundamen acklisee Barbian. yl cartionate, tankwagons,		•	Diphenyl oxide, tech. grade, tanks . lb.	1.11
r ottomic annually, CP ams., Ct,	1.40		Diphenylamne, raid., liake, ego., i.i.,	1.25
9.1801	1.18 1.10	į	molten, tanks, works lb. octylated, flaka, bgs., t.t., f.o.b.	1.00
ylinticus variono from , 8c. por lb. lower to eat a to b. cl., f. b. varion to the control of th	r.	•	works.	7.88
initialite times to b	1.80 .69	ŀ		2.52
wisks	.974	` '	dms	5.00
y thiouron, dms, cl., tl.,	.59		polymenc, bulk, c.i., illiii. Itc.	.91
wish a historia (see Diociyl adpair	2.48 .).		Otoropylene glycol, tanks, irt. alid ib. Dipropylene glycol monomethyl ether,	.45
stomanide 95.97% min. meta isomor dms. t.l., f.o.b.	•		ianka sama hasis	.54 .46
works Dethylan tohnding, tech , liq.	2.75		Di-o-tolylguenicline, powd., dms., t.l., frl. ald	2.92
tanka, somo basis	3.18 3.10		Oto-philhioures, tech., solid, dms.,	3.11
ylanıno, dans , c l , gyd , [b. ks, sınıwı basıs [b.	1.15		Ditridecyl phihalate, tanks, dlvd lb. Diundecyl phihalate, tanks, dlvd lb.	.84 .61
Nothylanino, das . c i , t i., i.o.b.	1.83	•	Olvinyibenzena, 100% basia, tenka workaib.	2.75
works b. ks sano hasis b. ybenzeno. tanks, i. a.b. works b.	1.76	:	dms, 100% basis lb. Dodecanol, syn., tanks, f.o.b lb.	3.00
othytho syt azolate (see Dioctyl azelah othytho syl phithalata (see Oloctyl phit	a).	•	Dodecanol synt, taken to be be be be be be be be be be be be be	.88
ylono głycol, trinks, dłyd, EIb. ylene glycol manabrityl ether,	294	M	Oodecylbenzane (see Delergent Alkylate Oodecylphenol, tanka, min. Irt. elid.).
dms_cl_fitelid.E,lb. ks.fitelikJElb.	.85 .57		E	.48
ylene glycol monoothyl ether, ilms,ct,ht.ald Eb.	.84		drugs and cosmetics, 100 lb. and over, frt, prepaid or alld.	
ks, irt wild Eb. ylene glycol monomethyl ether,	.56	:	Blue, F0&C. No. 1	21.20 29.15
drus, CI. frt alld	.82 .54	: :	Green, FD&C, No. 3	49.50 24.00
ylene glycol monobutyl ether ac- otate, dms , c l., dlvd. E b.	.80	1	Yellow, FD&C, No. 5 Ib. No. 6	7.45 8.45
nks, divd E	.72	:	Oyes, coalter, certified colors for druge and cosmetice, 100 lb. lots	5.10
eteto, dms , c t , irt. aild. E. lb. nks, tri aildb.	.80 .72	:	divd. Oreen, D&C, No. 5	38.50
hylenetriamine, tanks, 1.o.b. worksb.	1.60	12:	No. 6	42.80 18.85
nylanetramino pentaacetic acid, pentasodium salt solution,	1.00	14-	No. 17	38.90 38.25
tank cars/tanktrucks, in-	.45		No. 22	12.45 59.95
manp,oto or manpe	2.60 .321/s	110	No. 28	48.95 21.00
. Ib. col lourate, dms , ton lots Ib	.62 1.10	.71 12	No. 8	20.55
drazino sultato, rims , works ib. itrostropiomycia sultato, bulk kilo.	48 00	7	No. 10	48.80 35.25
/drexyacetone, 50-kilo lots, works kilo. obutyl ketorin, truks, divd	40.00 .80	:	Dyes, coaltar, for general use in cloth and paper dyeing (by Color in-	
obutyl olrifialuto janks, dlvd E. b.	.55	ā	dex Name), ř.o.b. works A 8ix 1 8iue bleck ex. conc lb. Dyes, A 6i 8 Blue 2G lb.	5.75
obulylore, tanks, fob flous- ton	.37 .40	è	A Bi 45 Alizarine Biu SAP 150% . Ib.	5.45 19.85
orincy) phitriplate, tanks, divd. b. oriony) phitriplate, lanks, divd. lb.	40 99	18	A 8190 Alizatine Br. CyG Ib. A 81113 Navy 58 Ib. A 0r 18 Gast 20 333% Ib.	14.13 8.55
o octyl natinte, lanks, dlyd. E ib. o octyl firthalate, tirnks, dlyd ib.	.40		A Or 711	22,12 3.72
oprirpanolemino, dris., c.t., iri.	.68Vi 58Vi	:	A Or 10 Wood Or G	4.00 4.30
nks, somo tinsts	1.17 1.07	:	A Or 74 Metallized Or GNA Ib. A R 20 Ib.	8.15 5.13
unks, samo basis nryl 3, 1-thiopipropionate, chris. 1.1.	1.89		AR 14 Azo Rubine 133% b. AR 18 Scarlet 4R Conc lb.	8,85 5,45
ht ulb1	7.00 15.80	823	AR 89 Feat Red A. Conc Ib. AR 151 Slik Red 38 Conc Ib.	5.85 4.50
why honzyl chrisinyl acouste, 42*	8.95		AY 175BNS Conc. Ib. AV 49 ABNS Conc. Ib. AY 177art Light Yell 2G. Ib.	8.75 12.22
its circs	.B0		P / 69 I BUURZINA F Y COMP III	5.69 5.18
wruks wihyl dichlorovinyl phosphate, 55	1.B0	12	8 Bi8Zinc Free	15.40 4.42
gat rims, f.o.b	1.15	1.4	8 0 1 Jede Crystals	9.55 6.00
e I., divil. E	1.07	15	8 V 1 Methyl Violei Crystals ib. B V 10 Rhodamhe B Ex ib.	8.80 10.85
tothyl militer, Arrosol timoo, wilks.	.38		B Y 2 Bond Yell SFA 150%	10.10 4.62
nothyl pirtininin, tanks, i.o.b. worksb. untityl snincain, tanke, i.o.b	.65		Et. Conc. 300% Ib. OB/8/Azurine G Conc. Ib. OB/8/Epst Black GR Ib.	9.25 9.45
uniteks	2.48	IB	Feat Black GR 150% Ib. O Br 230 Resin Feat Brown 8 RNO	2.05 4.20
inthyl sulfate, for ams., c.i., 1.00.	.57 .48	:	200%	7.23
withyl mulfiklo, timku, warkelb.	.69 .78	:	OR 248 Ex Conc. ID.	9.15 7.0B
kutiyi sriih ixkki, fijika, worka ib.	.874		OR 80 Fast Book Box 120 Colic In.	8.18 6.15
nuttiylamido, 25% MMT., turko, m.	.639	1 .	DR 8 Paper Red 8BLP Ib. OR 251 Fast Scarlet AV Ib. Or 102 Fast Orange WSP Liq Ib. WS. Com 150s;	8.85 0.25
10% sulm, tanks, fit equald., 100% businb.	.639		O Y 4 Brillians Daniel D.	2.47 11.25
nnhyet, trucks, bt. squald b. 4 Olavathylanillae, f.l., l.o.b b.	1.03 1.11	Í	Brittant Paror Volt Cont	4.89
II dme.	.57		0 y 11 Stilbene Yellow GA. Ex.	1.75
f.ti.b., worksb.	.49 1.22		Conc. Ib. 0 y 41 Fast Yellow RQL Conc. 200%. Ib. 0 Y 27 Resin Fast Yellow L Conc.	3.03
- Cinitros niline. tons-tons. CP, bgs.	5,20	- [Dis R 1 Scarles DA	8.75 14.40
divd. E. of Rockes		(Die V SVollenia C Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	4.26 21.00
81 47°, 1.1., 1.0.0. Challette.	.95		MSDY3Deans on the life	3.65 8.84
Dinitrophenol, 200-10. Unis. 10.	1.95		Dia V1 4DAI Danie VID.	4.91 3.77
nitrotoluene, mix., takiib.	.30		M 81 97 B B 8	7.85 17.25
4-Dinitro tofueno, dms., o.l., I,I., b., works.		,	Me Death	10.05 22.80
lanks, works	01	1	VO 1 Jade Green Double Paste . Ib. VBit 25 Olive TA Paste . Ib.	4.10 5.50 5.85
octyl phthalate, lanks, dvd. b		-		0.00
OCIÁI SEDECRIA DAM MINO	- 176			
1.I., same basis	1,51			
E	46	្រ		
beutaus steamens			Endrin, tech., 95-99%, dms., f.l lb.	7.00
o oil (see Ter ecid oil).			Ephedrine, syn. anhyd., USP, 80-oz. Ephedrine hydrochloride, NF, oryst., Eshedrine hydrochloride, NF, oryst., Eshedrine hydrochloride, NF, oryst., Eshedrine hydrochloride, NF, oryst.,	1.25
ip oil (see Tar acid oil) iphenhydramina hydrochloride, iga dom. 1,000-kilo lots, inid divd. 00 0%, bds. 0.1.1.1.		1	issa than 1,000 kg. kijo	38.25
ONC. DO ON HOR. O. I.	. 1		Ephedrine suffate, USP cryst., drys., less than 1,000 kilos kilo kilo kilos kilo	43.00
works.	147	(. sp 5)	Epichiorchydrin, tanks, civid lb.	.68
	فيطرنان		a contract of the contract of	

1.20	Epinephrine base, syn., USP, bots.,			Ferric chloride, se
-	100-gram totagram Epoxy resin, liquid, bulk tanks, divdlb.	.80 1.3t	1.41	cent bas
-	Solid, bgs., t.l	1.281/2	1.331/2	works Ferrie nitrate, cry
-	dms. t.l. or mixed to tach			Ferric oxelete, te
	WOILS IL	4.10	4.25	Ferrie oxides (se Ferric phosphate
5.50	Ester gum, gum-rosin type, dme., c.l., dlvd., lli., Md., Ky., E. Stetes, Minneapolis, N.C., Dhio, St.			der, dms Ferric pyrophos
	Estar gum, wood-rosin type, dms., c.l.	.75	-	pearls, § Farric resinate,
-	same basis	.43	.48	dma., to Ferric sulfate, pa
-	89% 1anka divd	.41 .41%	.41%	bgs., c.l., works. bulk, wor
-	Ethylacetoacetatedms., c.l., divd. lb. tanke, divd. lb.	t.13 1.05	.421/2	Ferric ammoniu green
_	Ethyl acrylate, tenks, irt elid ib. Ethyl alcohol, ayn., 190 pf., U3P tax	.88	-	2,000 R
.65 .65	free, tanks, divd. E 86i, Ethyl sloohol, sbsolute, 200 pf., tax fr	1.55	_ h_ blab	pt 2c. per pound su Ferric-ammonium
2.60	then 190 pf., tax free. Ethyl elcohol, fermentation, tanks,	ee prices 12	c. nigner	250-lb.
2.70	f.o.b. works	1.06	1.28	Farric hydroxy
_	Ethyl alcohol, denal. see Denatured sicc Ethyl p-aminobenzoate, NF (see 8 anzoc	riol ethyb.	78 5 .	acetio a sodium
_	Ethyl benzoeta, dmsb. Ethyl bromida, tech., 88%, dms., c.l.,	1.35	1.60	agricultural gr
.53	fri. alid, E	.78 1.35	1.50	tion, 59 works.
	Ethyl cellulose, etandard via, 7 cps. bga., t.l., frt. equald. E		1.50	Ferrous fluobore works,
22.60 28.22	standard vis., 10, 20, 45, 100 cps., t.l., frt. equald. E ib.	4.55	-	Ferrous glucone Ferrous napht
65.00	medium vis., 50, 70, 100 cps., t.l., frt. equald. E	4.17	4.22	dms., d Ferrous sulfate
24.50 7.85	Ope via., / cos ogs., j.i., irt. equald.	4.25	-	works.
5.75	USP 10,20,45,100 b8a., I.I., frt.	4.88	-	works.
	equald. Eb. VSP (medium) 50,70,100 bgs., t.l.,	4.59	4.68	works. USP, powd.
-	Frt. equald. E Ib. Ethyl chloride. tech., cyls., Irt. elid . Ib.	4.51 .28	.281/2	cryst., 250 lb Fir oil, Canada o
-	tenks, in alid	.24 41.00	.2517	Siberis, dms. Fish oil, refd., a
	Ethyl ethanolamines, mixed, dms., t.l., divd. E	1.23	-	kettle-bodied light, cold-pro
: 1	Ethylethar, refined, tenke, f.o.b b.	1.15 .48	-	tanke Fishmesi, de
-	Ethylhexenoata, dmslb. 2-Ethylhexolc acid, dms., c.l., t.l., divd.	4.25	4.75	profei
46.85	tanks divd, E	.63 .57	-	f.o.b. Guif
_	2-Ethylfiexyl acrylete, straigh) er nrixed, lanks, irt. alid. E jb,	.79.5	-	Imp., Chiles bulk, c
	2-Elhylhexy) alcohol, lanks, divd lb. Ethyllodide, cbys., works lb.	.35 6.25	-	Atlanti Fluoboric scid
	Ethyl linelyl scelele, syn , 55-gal. dms lb. Ethyl linelyl scelele, syn , 55-gal.	10 80	•	Fluorocarbon
-	dms. Ethyl methacrylate, tanks, fri.	10.85	-	delvd. No. 12, bulk
: '	n-Ethyl morpholine, dine., t.i., fri.	₹0,1	-	No. 22, bulk No. 113, bul
:	alid	2.00- 1.82	_	No. 114, but Fluosificic acid
:	n-Ethyl-o-naphthylemine, dms., works,b.	1.04	_	Formaldehyde Inhibit
-	Ethyl oxalate (see Diethyl oxalate). Ethyl parethion (see Parethion, athyl).			44·45% (
-	Ethyl silicete dist. (see Tetreethyl orthosi Ethyl silicete, 40% evelloblo SiO ₂ ,	licate).		37% (int
	dms., f.l., f.o.b. workslb. fanks, f.o.b. workslb.	1.45 1.38	1.46 -	37% (Inhit tanks,
:	N-Ethyl-m-folukline, tech., Ikq., dms., c.l., 1.o.b	3.18	_	Formemide, tei dms., se
-	teriks, same basis	3.10 2.85	2.80	Formic ecid
:	Ethyl venillin 100 lb. dms., 500 lbs. or	13.50		95% dm Fructose, cryst
:	25 lb. dms., 500 lbs. or more lb. 100 lb. dms., lbss than 500 lbs lb.	13. 7 5 14.00	14.50	dms., Furnaric acid, f
Ξ.	Ethylamino (eco Mono-Di- end Tri-) N-Ethylanilino, dms., c.l., t.l., f.e.b.			equak feeh. grade
-	workelb. tanks, serno basislb.	1.66 1.58	-	equald Furfural, tanks
:	Ethylbenzene, bulk, f.o.b. Houston, Tox	.22	.23	fowa, a Furturyi alcoho
-	Ethylene, contract, divd b. Ethylene hrs ssylete, dme b.	.18 18.00	.1872 18.25	Tenn.
:	Ethylenediamine, 99%, tanks, 1.o.b. workslb.	1.30	1.305	
2	Ethylenediamine dihydriedide ib. Ethylenediamine tetraccelic add, te-	7.65	9.25	
	fra sodium salt, soln., 1.0., 1.1., frt. oquald	.3614	_	U
	Ethylone dibromide dms., o.l., frl., equaldb.	,38	.48	
-	tanka, irt. equald	.32	.42	Gselt, drns., frt Gallio stid, 400-
	worksb. Ethylene glycol, induet., fanks, fri.	.17	.17%	Garlic oil, dris., Getatin, edible,
_	aldb. Ethylene glycol, monobutyl ether,	.31	-	I,f.I., dh
	tanke, divd. E	.411/2	-	150 AOAC 175 AOAC
:	tanks, divd. Eb. Ethylene glycol monomethyl sther.	.81	-	200 AOAC 225 AOAC
-	tanka, divo. E	.34	-	250 AOAC 275 AOAC
= 1	elate, lanks, frt. alki. E lb. Ethylene glycol monoethyl ether ac-	,641/2	-	. 300 AOAC Gentlen violet (s
- 1	etate, lanks, ft. alid., E 10.	,551/2	-	Geraniol, syn., 9
- 1	Fitndana oxide tanks I.o.b	.43 .35	.45	syn. 96-98%, Geranium oil, Mo
-	Ethylene trichloride (see Trichloroautylen Eucahotol, NF, dras, Portuguese "kilo,			Bourbon
-	Eucalyptus Citriadora Oil, Chinese kito Eugenol, USP, dma kito	8,05 7,55	<u> </u>	Egypt
	- June 1			Gerányi acetate nat., drns
				Geranyi formate
			:	Gisonite, g.p., nanza, t
			:	selecte, same Ginger, Cochin
	Fennel oil, sweet, USP, cns kilo	9.00	;	Chinese sliced Ginger oil, Chine
	Fennelseed, Egypt	.87 .80	.82	Majari
40.25	Ferrugreek seed, Indian, bga b. Ferric chloride arrhyd., tech., 350-lb.	,20 aa aa	.04	Glauber a self (9)
46.28	Fernigreek seed, inclusing a gent ferric chicride aning, sech, 350-lb. dms., ol., works. 100 lbs. Ferris chicride, 42 lbs. photo grade dms., 61 works. 100 lbs.	36.00		tanke, same b
40.20	das of works 100 bs.	9.10		

Fennel oil, sweet, USP, cns. klo
Fennel seed, Egypt b.
Indian b.
Fenngreek seed, Indian, bga. b.
Ferric chloride arinyd, sech., 360-lb.
dms, o.l., works. 100 lbs.
Ferric chloride, 42 Be, photo grade
dms, o.l., works. 100 lbs.

Ferricchioride, sewage grade, 100 per-					
works, tank	76.00 2	155.00	ALIFILIA	I	ī
Ferric oxelete, tech., gran., 50-b. dm	.84	- 00.00	CHEMIC	-Δ	L
Ferrie Oxides (see Iron Oxides)	1.85	-	1 — — — — — —		
Ferric phosphate, FC Cq Insoluble pow- der, dms, 10,000 lbslb.	1.10	1.15	PRICES		
Ferric pyrophosphate, soluble, purif, pearls, 50-lb. dm lb.	1.11	-	PNIVES		
Farric resinate, precip., 8.75% Fe. dms., ton lots frt. slid lb.	.45	- 1			
Ferric sulfate, partly hydrated, 100-lb. bgs., c.l., works. ton	141.00	- 1	WEEK ENDING OCT 17,	1966	
Famic ammonium citrie, NF, brown.	117.00	- !	Glue, bone, sxtrs.cts.d, green, jelly- grams, bga., o.l	_	
green gran. 100 lb. dms., 2,000 lb. mln., f.o.b. shipping		- (85 jellygrams, bgs., c.l., l.o.b , lb.	.86	Ξ
pt	2.00 .of Danver	2.95	116 jellygrams, bgs., c.l., t.o.b , ib. 135 jellygrams, bgs., c.l., t.o.b , ib.	.78 .77	Ξ
Ferric-ammonium oxalate, fine gran., 250-lb. dms., t.J., (.o.b. works.		1	184 jaliygrams, bgs., c.l., l.o.b lb. 192 jaliygrams, bgs., c.l., l.o.b lb.	. 79	-
5b	.42	-	220 jallygrama, bgs. c.l. f.o.b lb.	.87 .83	_
Farric hydroxyethylens diaminetri- aceto acid, industrial grade,			Glue, hide, 108 jetygrams, bgs., t.l., I.o.b ib.	.80	_
sodium salt, soln., 4.5% Fe, 1.c., t. t., I.o.b. works ib.	EE		135 jallygrama, bga., t.l., f.o.b lb.	.85	-
agricultural grade, sodium salt solu-	.65	-	164 jellygrama, bga., t.l., f.o.b ib. 192 jellygrama, bga., t.l., f.o.b ib.	.90 .95	-
1101, 5% Fe, t.c., t. 1., f.o.b. works	.64	_	222 jellygrams, bgs., t.l., f.o.blb.	1.00	-
rerrous illuobarete liq. conc., dma., 1.1.,	-		251 (ellygrame, bgs., t.l., f.o.blb. 283 (ellygrams, bgs., t.l., f.o.blb.	1.05 1.10	-
works, frt. equald	.84 2. 2 5	-	315 jellygrams, bgs., t.l., f.o.b , , lb.	1.15	-
Ferrous naphthenete, IIq., 6%, Fe. dms., dvd			347 jellygrams, bgs., t.l., f.o.b lb. 379 jellygrams, bgs., t.l., f.o.b lb.	1.20 t.25	Ξ
Ferrous sulists, moist, bulk, t l. i.o.b.	1.17	-	411 jellygrams, bga., t.l., f.o.b lb.	1.30	-
workston heptahydrate, gran., bulk, tJ., f.o.b.	30.00	-	444 jeliygrama, bgs., t.l., f.o.b ib. 477 jeliygrams, bgs., t.l., f.o.b., ib.	t.35 1.40	_
workston	145.00	150.00	Glutanic sold, 9912% dms., 100-lb. lots, frt. eld klio	8.85	_
monohydrete, gren., bulk., f.l., f.o.b. worksfon	170.00	180.00	Glycerina, nat., refd., USP, CP 991/2%		_
USP, powd., 400-lb. dms lb. cryst., 250-lb. dms lb.	.49 .81	:	tanks, divd , ib. USP, CP, nat. 96%, tenka, divd ib.	.8912 .8744	-
Fir oil, Canada dims	10.00	-	Syn. 98%, tanks divd lb.	.8914	_
Siberis, dms	12.75 .29	-	Byn. 88.5%, tanks divdb. Glycine (see Aminoacetic acid).	.91	-
kettle-bodied, tanks	.32	.35	Glyceryl gualacolate, 100-lb, 1lb, dms.	1450	
tankeIb.	.34 .26	-	f.o.b. klio Glycolic acid (see Hydroxyscetic acid)	14.50	-
Fishmesi, dem., menhaden, 80% profein grd., bulk, f.o.b, At-			Gfyoxsi 40% soin., bulk, tanks,	.441/2	_
lantic portton	295.00 290.00	-	Grapeiruit oil, Fla., dms lb. Calif., dms	2.75 2.25	-
imp., Chileeri, 85% protein min.,	200.00		15raeli	2. 2 5	=
bulk, c.l., t.l., ex whee., f.o.b. Atlantic and Gulf ports,ton.	285.00	-	Graphita, emorph, powd., bgs., dms., ex whse,	.18	j.
Fluoboric ecid, dms., f.l., works, frt. equald	70	_	cryst., 88-90%, powd., bgs., dms.,		
Fluorocerbon, No. 11 bulk, tanks,			ex whseb. Graphila, crys1 90-92%, powd., bgs.,	.30	
No. 12, bulk, same besis lb.	,57 ,86	.64 .74	dmsox whsab	.40	
No. 22, bulk, same basis Ib. No. 113, bulk, same besis Ib.	1.05 .89	1.14	95-88% powd., bgs., dms., ex whse	08.	
No. 114, bulk, sama basis lb.	1.02	.9397 80.1	Graphite, amorph., cryst., 87% end up, powd., bgs., dma., ax		
Fluosificic acid (see Hydrofluosificic acid Formaldehyde, 37% methanol free (un-	η.		whselb.	.80	1.
Inhibited) divd., guif ib.	.088	.0905	Grephita, flake, No. 1, 80-95%, bgs., dms., ex whse., lb.	.85	
44-45% (1% merhenol) tenke, dwdlb.	.1018	.1085	No. 2, 90-95%, bgs., dme., ex whee	.85	
37% (inhibited 7% methenot, dwd	.0945	.1025	Greese (See Oils, Fets & Waxes market		
37% (Inhibited 11-15% methanol)	.1055		Greese oii (See Lard oii). Guelacol, tech., 500-lb dms., 24,000ib.		
tanks, dlyd, lb. Formemide, tanke, f.o.b lb.	.39	- 1000	mfn., f.o.b. Wallinglord,	270	
dms., same basis ib. Formic ecid 90% fanks, f.o.b.	.44	-	NOTE Purified gradesers 10c. higher	2.70	_
workslb.	.38/2	-	Gualacwood oil dms lb. Guar gum, edible, bge., c.l., f.o.b.	2.50	-
95% dms., c.l., workslb. Fructose, cryst., f8,000 kilos or more,	.5114	- -	ship't.ptib.	.50	.;
dms	.90	1.03	indust., bgs., high viscosity, c.f., sama basisb.	.50	
equald. E	.751/2	.77Vz			
feeh. grade, bge., t.f., f.o.b. frt.		.62Vz			
Furfural, tanks, f.o.b. Cedar Repkds, fows, and Belle Glads, Fis. lb.	.75	-			
Furturyl elcohol, tanke, f.o.b. Memphis, Tenn. and Omaha, Neb, fb.	.72	-			
			Heliotropia, dmelb.	8.00	8.2
72			Hemiock of (see Spruce oil). Henbane leaves, bisib.	.65	_
			Hantone latient tente Lob Reau	.00	_

I	Tenn. a
İ	
l	
١	
Ì	
I	
ı	Gselt, dms., frt.

October 20, 1986

	4		Hallotropin, dmelb. Hemlack of (see Spruce of).	8.00	8.25
			Henbane leaves, bis	.55	_
			Heptana, Indust., tanka, I.o.b. Beau-		
			mont, Texgal.	1.07	-
			85%, tanks, I.o.b. Houston,		
- As and 40000 hards like	2.30		Texgat.	1.18	_
a., frt. alid. 100% basis lb.	23.05	_	Heptanoic sold, syn., tanks, f.o.b	.86	-
, 400-kilo lota kilo	85.00	105.00	f-Hexadecanof, syn., terske, f.o.b b.	.431/2	_
dms., Egyptien kilo dible, 100 AOAC test, dms.,	99,00	100.00	Hexahydrophthalic anhyddde, tech.		
f.l., dlvd	1.50	1.75	dms., i.t.l., f.o.b. works b.	1.42	-
ACAC test, dms., tf.Llb.	1.75	1.65	Hexamethylenetetramine, gran. bgs.,		
OAC tost, dme., Lt.L	1.86	1.95	a.l., f.l., works	.65	-
OAC test, dms., Lt.L Ib.	1.85	2.05	gran. dras., c.i., t.i., works ib.	.69	-
OAC test, dms., Lt.I fb.	2.05	2.15	gdr. bge., c.l., t.l., works lb.	.60	_
OAC test, dms., tt.L lb.	210	2.25	powd. dma, c.i., t.i., works To.	.63	-
OAC test, dms., I.t.l fb.	2.20	2.35	Hexane, indust., tenks, works gal.	1.01	1.15
OAC test, drns., tl.Llb.	2.30	2.45	95%, tanks, 1.o.b. Houston,		
OAC test, dms., Lt.l fb.	250	2.65	Texgal.	1.12	-
plet (see Me thyl roseanline ch	ioride).		I-Hexanol, syn., tanks, 1.o.b fb.	.50	-
yn., 90-92%, dms b.	5.25	-	Hexyf sicohol, mixed isomers,		
92%, dms 10.	3.50	-	tanksb.	.32	_
98%, dmsb.	5.75	-	p-Hexyl methsorylete, dms., o.l.,		
oli, Moroccan b.	46.00	-	worksb.	.761⁄≥	-
1	55.00	~	Hexylens glycol, tanks, divd	.60	-
kijo	23,00		Hexylresorcinol, USP, cms., 25-lb. lots		
b.	22.50		or more, frt. alid	30.00	-
(see Palmerose oil)	5.44	5.00	Hometropine hydrobromide, tJSP, 10-		
etate, dms	10.95	3.00	100-oz. lots, bots oz.	10.26	11.30
8,lb.	8.60	Ξ	Homatropine methylbromide, USP, 10-		
male, syn., dms b.	15.95	Ξ	250 oz. lote, bots oz.	9.70	10.70
g.p., bulk, o.l., f.o.b. Bo-	. 10.00		Horehound herb, bis	.25	.28
nze Ulah ton	180.00	_	Hydrazine hydrate, 55%, t.t., 1rt.		
same basis ton	180.00	-	&id	1.54	~
chin, bos ib.	.63	.65	55-gal. dms., t.l., frt, ald ib.	1.81	-
sliced	55	.70	Hydriodio acid, purif., 47%-57%, 2-		
Chinesa kilo	39.00	48.00	cbys., f.o.b. works lb.	7.60	-
en kiko	44.00	48.00	Hydroabletyl alcohol, tech., solid.		
regin, NF, bote, lb.	30.00	_	dms., o.l., f,o.b. zone 1 lb.	.85	-
selt (see Socium sulfale).			tanks, f.o.b. zone 1lb.	OB.	-
Nd tech. 50% dms., c.l., t.l.,			Hydrobromic sold, 48% dms., q.i, 1.i.,		
b. works	.50		10.b	.381/2	
rne basie	- 44	-	Hydrochlorio acid, anhyd. (see Hydrogen	chioride).	

CHEMICAL MARKETING REPORTER

6

fron, puril., powd., pails, 10-100-lb.

iots. iran axide, black, syn., bgs., c.l., fit.

WEEK ENDING OCT 17,	1986		ľ
Hydrochlorio acid, 20° 8e, tenks,			l
works, East ton Mktwest ton	55.00 60.00	85.00 70.00	h
Guil Coast ton	57.00	-	ŀ
West Coastton 22° acid, same basis, Eastton	90.00 68.00	105.00 78.00	П
Midwes1 ton	88.00	70.00	
Gulf Coast	63.50 100.00	116.00	ľ
NOTE: Prices vary and are either freight			h
Ized depending on producer and i	ocation.		ľ
Hydrocortisone acatale, micronized, dms., 25 klos or more , gram.	.70	-	ľ
Hydrocortisone, alcohol, micronized, dma., 25 kilos or more , gram.	.70	_	l
Hydroffuoric #Cid, anhyd. (see Hydrogen f		-	
Hydrofluoric acid, aquaous, 70%			ı
equald100/bs.	43.00	-	l
Hydrofluositioic acid, 16-gal. drns., I.I., works, 30% basis ton			l
tanks, 100% basis, works ton	190.00	210.00	b
Hydrogen bromide, anhyd. cyls., extra,	7.00		Г
30,000-bs., 1.o.b. works b. Hydrogen chloride, anhyd., 60-lb. cyfs.,	7.00	-	ı
c L, works	.65	-	ı
600-lb. cyls., o.l., same basia, .lb. Hydrogen chloride, anhyd., tube trai-	.62	-	i
ere, sellar's trailer, min.			
100,000 lbs. a year lb. tube trailers, buyer's trailer lb.	.37	-	l
riyotogen critorida annyo janks,			ı
works ton ! Hydrogen cyanide, Iq., 99.6%, tanks.	270.00	-	Г
worksb.	.50	-	١
Hydrogen fluoride, arrhyd , tank cars c.l., i.o.b., int. equaldb.	.8875	_	ı
Hydroosh peroxide, 35% tech., bulks.			l
works, it. equald ib. 50% tankcars, frt. equald ib.	.3225		ı
70% tankcars frt. equald ib.	.45	_	ı
Hydrogen autilde, kg., 98.25% min.	40	.13	l
selfor's tanks, works	.12 2.27	-	ı
Hydroquinane, photo grade, consum- ers. c l., tk., dvd lb.	2.54		١
tech , dmg. c.k., divd	1.95	_	ı
Hydroxyacetic acid, tech., 70%, tanks, Belle, W. Va	.491/2	_	ı
riyaraxylammomum sulfate, dittis. , t.i ,			١
p-Hydroxybenzene sulfonic acid (see p-F	.83 hustoor	colo ecidi	١
Hydroxybutyl melkylcollulose (visc. 12,000 cps.) 50 lb. bags, tl., cl.	AND NAMED (ST)	Orac Brown.	١
12,000 cps.) 50 lb, bags, tl., cl. 30,000 lb, min., divd., zone			ł
l	2.10	-	ĺ
Hydroxyclfronellal dimethyl ecelel, drvs	16.55		١
P-HYdroxydiphenylamine, dms., 1.L.	10.03	•	١
f.o b. works	4.10	-	١
natural, dma	9.40	-	- [
pure, dms	13.60	-	
syn., ams	14.80 9.50	:	
Hydroxyethyl methylcellidge, Alec	2.07	2.12	
5,000 through 45,000 cos.) 50			
5,009 through 45,000 cps.) 50 b. bags, t.l., c.l., 30,000 lb. min., divd., zone f	0.70		
	2.73	-	
mlum, U.S.P. (visc. 4,000 through 15,000) 50 Bb. bags,			
I.I., C.I., SOUGUE, MIN., CIYO.			
zone 1	2.87	-	
(VISC. SV INCOUGH 100 cost 50			
b. bags, tl., c.L, 30,000 lb. min., divd., zone t b.	0.55		
Hydroxyprapyl methylceflulose (visc. 4,000 through 15,000 cge) 50	2.99	-	
4,000 through 15,000 cps) 50			
בי בארותיים או און ואון און און און און און און און	2.17	-	
10. Dags, L1, C1, 30,000 lb.ln.,			
10. Dags, L1, C1, 30,000 lb.ln.,			
dvd., zone 1			
30. Dags, t.i., c.i., 30.000 lb. ln.	2.64	_	

ichthammol NF. 200 kilo dms b. Iminodiscelic acid. 96% mm . dms	4.25	4.50	
G.L. I 1, Works	3.00	_	
Inositot, 50-kilo dms., 1000 kilos o	25.60	-	l.acquer
more, I a.b. works kan	17.50	22.00	
CUPS, Cruds, oms	13.60	18.00	1
KOUMB USSP	14.21	14.59	Hou
iodochlornydroxyquin, USP, XVI 50. i40 dms., 100-499 kees, frt.			Lacquer
lodolorm, NF, dms., 300-lbs., f.o.b.	35.00	45.00	Hou
works b.	24.00	-	Lactic ac
a lonone, cirus b	18.20	-	1
b lonone, drns b.	13.10	_	509
irish moss, bleached prime	25.00	-	Lactos
iron blue, eikel-resisjent, hos i ci	.65	.80	Lactose
Iron blue. reg , bgs., i.c.l., ton lota	2.70	-	
same basiab.	2.00	2.15	Lectose

	iron oxide, black, syn., bgs., c.l., frt.	1.00	_	Lerolin, enhyd., coemetic. 400-ib. dma., worksib.
	equald	.681/2	.751/2	sharmacaidical, 400-ib, uitis.
	iron oxide, brown, syn., bgs., c.l., int. equaldb.	.68	.781/2	workslb. fech., (under 2% f.l.a.), 400-lb.
	tron oxide, metalic brown, I.C.I., Dgs.,		45	des modes
	frit. equeld	.13	.15	Lard (See Oils, Fats & Waxes market report Lard oil, No. 1, dms. c.l., I.o.b ib.
	o.l., works	.275	.40	tente agroup north
	iron coide, yelkow, b. eyn., bgs., c.l., irt. equald ib.	.18 .63	.71	Lard oil, extra, winter-strained, dms.
ľ	iron oxide, buff, net., dom, bgs., c.l.,			tenke same hasis
	t.i., works, lightin.	.75 .60	.80	prime, burning, dme., c.l., same be- sie, Chicago ib.
	darklb. other sheden, bgs., c.l., irt.	.00		admo humino tenka, sema Da-
	ecruald	.50	.65	sie
	isatoic anhydride, bgs., f.o.b. works ib. Isoamyl acohol, 95% tanks, frt.	1.40	_	Cossi, 3c, higher.
	elidD.	1.44	1.48	Laurent'e ecid, drums, I.o.b lb.
	Isoborneof, 100 lb. dms	7.26 .80	1.15	l auric scid, comil., buré bos., C.I 80.
ł	isobutyi acetiste, solvent grade, tanks,			Lauric sidehyde (sidehyde C-12). dmsb.
1	frt. alici	.45 .71	.48	l m i sund mothernista dima C.l., I.I.,
•	isobutyl acrylete, tanks, frt. alid. E ib. isobutyl stochol, fanks, divd ib.	.28	-	works
	Isobutylene, 99%, tanks, 1.0.b.	90) averyler flowers, ord,
	workaib. Isobulyi isobulyrale, tanka, f.o.b.	.32	-	medium, ble
	workslb.	.421/2	-	Lavender flower oil, NF, French,
	Isobutyl methacrylate, tanks, divd lb. Isobutyl ohenviecetate, dms lb.	.87 3.10	3.50	40-42%, esfer, cne lb. spike, 8panish, dms kilo
1	leobutyl salicylate, dms	3.46	-	Land acetate, purit, lieke. 400-ib.
	leabutyrelde hyde, tech., dms., c.l., divdb.	.43	_	tech., fleke, 1.l., 400lb. dma.,
	tanks, dvd b.	.35	-	WORKS
	isobutyric acid, dms., c.l., l.i., divd lb.	No Prk	205	Leed blus, basic, sulfets, bbis., c.l., ahip,1.pt.,f.o.b
	tanks, same basisb. teobutyronitrile, dma., c.i., f.o.b. works	.70		Lead carbonate. (see Lead white basic cart
	Irt. collect	.84	-	Lead chloride, 400-lb. dms., works. lb. Lead dloxide, 1ech., powd., 200-lb.
	tanks, same bae'sb.	.75 6.20	5.60	dma. I. works
	isoniszid, powd kilo	12.00	-	Lead fluoborate, Iq. conc., dms., 1.l., works, frt. equald lb.
	Isonicotinio scid, hydrazine (see Isoniazid). Isononyi picohol, drus., t. I	.48	-	Lead metal, divd
	Iso-cetyl alcohol, tanks, divd lb.	.44	-	Leed monoeficete, mified, bgs., c.l., f.a.b. worksib.
	isopherone, tanks divd	.81	-	coarsa, bga., c.l., seme basisib.
	Joiet, II., min. frt. ald b.	.48	-	Lead naphthenate liq., 24% Pb. dme., irt. ald
	isophtheionitrile, bgs., 1.i., works , b.	2.86	-	Lesd nitrate tech., cryst., 400-tb. oms.,
	I Isopropyl acetate, tanks, clvd lb. I Isopropyl alcohol, anhyd., 99%, tanks,	.47	•	1.1. works
	divdgal.	1.38	-	Lead red, 95% Pb,O4, or less, bgs. c.l.,
	reid., 85%, tanks, divd gal. reid., 81%, tanks, divd	1.31 1.25	-	Lasd rad, 97% Pb ₂ O ₄ , bgs, c.l., works
	isopropyl ether, tanks, divd b.	.44	-	Lead, red, 88% Pb ₃ O ₄ , bgs., c.l., same
	crude, tanks, divdb. Isopropytemine. (see Mono-, Di- or Tri-).	,37	-	besisib.
	Isopropyl myrisfate, dms., I.I., E, b.	1.19	1.50	Lead silicate (see Lead, white, basic silicat Lead silicophromate, bgs., c.i.,
	itaconic acid, netd, bgs (.i lb.	1.45	1.48	workslb.
				Lead suitete (see Lead, blue, basic suite basic suitete)
	t L			Leed, white, besic carbonate, bgs., c.l.,
	I i			frt. ald.,
	U			same basis
				Lead, white, basic sulfate, bgs., c.l., same basis
	J add, paste, drns., works, 100% be-			Lecithin, edible, tech., bleached, nor- ret, dms., i.c.i., worksib.
	1919kilo	4.75		unbleached non-ret. dms., l.o.l.,
	Japan wax, ca b. Jojoba oli, 55-qal. dms., f.o.b. Arzona	5.60	5.60	same basis
	producing point gal.	56.00	00.08	drns., 1.l., works
	Juniper berry oil, italian	47.00		unblesched, non-ret., dms., t.l., same basis,
		-		Lemon oil, Argentina kijo
				Gelff., USP, drns lb.
				Italianb. Lemongrass oil, Indian, dmsklio
				Gueternelan, dmslb.
				di-Leuckte, dms., 1 kilo works kilo Licorice root, whole, bis ib.
	Kaolin, water washed, fully calched,			gran., bleb.
	bags c.l., t.o.b. Georgia ton	265.00	-	powd., ble
	NF pwd., colloidal, bacteria con- froiled, 50 b. baga., 5,000 b.			foriate).
	iotsb.	.24	-	Lime, chamical, pebble (quicklime), bulk, 50,000 lbs., works, f.o.b.
	Kaolin, uncalcined. No. 1 coating, bulk, c.l., 1.o.b., Georgiaton	94.00	- .	plantston Lime, charmical, hydrated, bulk, same
	No. 2 coatington	75.00	-	basieton
	No. 3 coating	73.00 70.00	=	bge., eame basis fon Lime, NF, purit., 100-lb. dms lb.
	filler, gen,i purpose, same ba-		_	Lime oil, dist., Mexican, dms ib.
	delaminated water washed, uncal-	68.00	-	Halten, dist, dris
	cined paint grade 1 micron			Lime salts (see Caldum).
	avg., same beals lon dry-grd. airfloated soil, eame be-	182.00	-	d-Limonana, dmakilo Linakool ax bols darosa oli, dmab.
	sis	60.00	-	eyn., 98-100% dms., f.p.b. works., ib.
	Karaya gurn, No. 1, powd., bbtsb. No. 2, powd., bbtsb.	2.25 1.95	-	Linelool oxide, syn., 55-ga), dm lb. Linelyl acetate ex bole de rose di, 90-
	Kolenuts, bgsb.	.50	.53	92%, dms lb. syn. 98-100%, dms., f.o.b. works. b.
				Unatyl benzoeta, syn., 55-ozi, dws. lb.
				Linelyl oinnamete, syn., 56-gel.
				Unally formate, syn., 55-gal. dms lb.
				Linelyi laobulyraia, syn., 65-gal. dmab.
)				Lindana, 20% formulation, dma
				98.9% 1ach., dms 1.1.,
	Lacquer diluent petroleum, 140F			Linelyi propionale, syn., 66-gal.
3	200F. b.r., t.c., New Jersey			CITIS
)	and New Yorkgal.	1 20	-	Linden flowers, with leaves, bis ib. without leaves, bis ib.
-	Lacquer cilicent, petroleum 200F		_	Lineago meal (888 Oils, Fate & Waxee me
0	240F. b.r., Isnkcers, New York and New Jersey gal.	1 20	1.25	Linesed oil, (see Oils, Fats & Waxee mar Linesed oil latty sold, dist., dms ib.
_	requaton, lex	1.12		I TRINKS III
	Lactic acki, lood grade 88%, t.c., l.o.b. worksb.	1 1/4	_	works
	50%, t.o., frt. equald ib. tech., 88%, t.c., frt. equald ib.	20	_	Lithium bromide, anhyd., dms., ion lots, divd
	Laciosa, edible, reg. bos., c.i.		-	SOIL SHIPS DOWN
0	works	-	.28	Lil. dvd
	equaldth	55	.69	Lithtum obtoride, anhyd., c.i., t.i., divd
	Lactose, USP, stray dried has II			

						-
_	and topes (md 53) bble lift.			Lithlam by dride, c I., 11, divd. 10,000 or		_
	eka C, red toner. (red 53) bbis., irt. alid	5.70	-	Lithum hydroxido, monohydraia	23.50	- !
١	arolin, enhyd., coemetic. 400-lb. dma, worka	1,18	t.25	Littleuin in pechicita c L 11 works in	1.93	i .
1	pharmeceutical, 400-lb. dms.	1.15	-	Lithwini ment, 1,000 lb. lots or more, divid	1.07	٠.
	fech., (under 2% 1.1.2.), 400 lb.	1.08	t 13	Littinian nitrato, tech, dms., 100-lb.	22.70	•
ŀ	ard (See Oils, Fals & Waxes market report			LIMIUM STEATRIC, DGS . C L. Lift allid &	3.25 1.01	: .
	tanks, same basis	.28	1	Lithor red loner, berlum, dms., in.	3.08	• [
١	c.lb.	.41 .33		alid	3.27 3.50	
П	odme huming, dme., c.l., same De-	.43	_	Lithol rubino toner (red 57), resinated, dms , int. end b.	5.80	•
ı	ele, Chicago	,35	_	2,4-Littleng.dmst.lrt.equald_kfg	5.00	175
l,	NOTE: 300 MI. rad. 1 V.c. higher, except Ti	exas, 2c.,	and West	Lycopodium, 50-lb. dms	8.00	10/4
١.	Coasi, 3c. higher. aural lesves, Turkish	3.00	3.10	grade, 10,000 lbs divdlb.	1.35	1.6
H	aurent'e ecid, drums, I.O.D ID. aure acid. comi., pure bos., C.I 1D.	3.85 .65	.71			
ľ	auric aldehyde (aldehyde C-12). dms	7.75	-			
n	Lauryl methacrylate, dms., c.l., I.l., works	1.72	_	M		
Įį	avandin oil. Abriefs, 30-32%, dms. lb.	4.00	.75			:
ľ	evender flowers, ord lb. medium, bie lb.	.80	.90 1.19	Maco, East Indian, sillings, ib.	100	
L	salect, bla	1.10		Slauw #2b.	4.95 5.60	5/1 ·
	40-42%, ester, cne lb. spike, 8 panish, dms kito	8.26 15.00	13.50 22.00	Megnosia, tech, light, neoprene- grade, bgs., c.l., t.l., works ib.	25	
4	esd ecelete, puril., lieke. 400-ib. dms., works	.48	-	Magnosia, syn., loch , chamical- grade, bulk, c.l., t.l.		
1	tech., fleke, 1.I., 400lb. dma., workslb.	.37	_	bags, c.l., t.l., same basis ton	330.00	:
l	and blus, basic, sulfate, bols., c.l.,	.87	_	deadburned, bulk, same be-	392.00	
1	ahip,1.pt.,1.o.b	bonate).		bgs., sama basis	409.00	. 1
11	ead chloride, 4004b. dms., works. ib. Lead dloxide, 1ech., powd., 200-ib.	3.25	70	mesh, bulk, c.1, 1.L, l.a.b.	222.00	
١.	dme., I.I., works	.66	.70	Nev	232.00 265.00	:
	works, frt. equald lb. Lead metal, divd lb.	.65 .24	Ξ	Magnesium bromide, 80-lb, dma., hex- ahydrale	2.50	
	Lead monoellicete, milled, Dgs., C.I.,	.584	_	Megnesium carbonata, light, fech., bgs., c.l., t.l., worka, irt.		
	coarsa, bgs., c.l., seme basisib.	571/2	Ξ	equald	.73 .74	.11 10
١.	Lead naphthenate IIq., 24% Pb. ome., frt. eld	.93	-	USP, heavy, bgs., c.l., same basislb.	.83	
- 1	Lesd ritrate tech., cryst., 400-b. dms., 1.l., worksb.	.321/2	-	Magnasium chlorida, anhyd., 92%, lieko or pebblo dms , c.l.,	484-	
1	Lead peroxids (see Lead dioxide). Lead red, 95% Pb ₂ O ₄ , or less, bgs. c.i.,			Magnesium chloride, hydrous, 98%,	.12%	
- 1	workslb.	.37	-	Magnesium gluconste, 100-fb. dms.	.14/2	•
	Lasd rad, 97% Pb ₃ O ₄ , bgs, c.l., works	.37%	-	Maynosium hydrosida, NF, povd.	4.25	•
ı	Lead, red, 88% Pb ₃ O ₄ , bge., c.l., same basis	.371/2	.401/2	dms., c.l., t l., works lrl.	.78	
1	Lead silicate (see Lead, white, basic silica Lead silicochromate, bgs., c.l.,			Megnesium teuryi sullata, tanks, f.o b.		Ž.
1	works	.35 ele and Lo	ead, white,	Magnosium metal, 99.8%, ingels,	.22	V.
١	basic sulfate) Lead, white, besic carbonate, bgs., c.f.,			10,000-lb lots or more. f.o.b. Fruenort, Toxb.	1,63	•
١	frt. ald., b.	,82	-	Magnosium nitroto, tech., flake. 250-	1.29	1.3
-	Lead, white, basic, efficate, bgs., c.l., same basis	.87	-	ib.dms , I I., works fb. Magnosium orido, U5P, light, bgs., cJ,	.32	
. 1	Lead, white, basic sulfate, bgs., c.l., same basis	.85	-	walks, frt oquald lb.	1.65 1.54	:
١.	Lecitrin, edible, tech., bleached, non- ret, dms., i.c.i., works ib.	,36	-	hoovy, dma., c l., some bosis lb. Magnesium oxido, lock (see Magnesia		
١	unbleached non-ret. dms., l.o.l., same basis	.34	_	Megnosium phosphato, tribasic, toch. 60-lb. bgs., I.o.b	t.00	٠
Ì	egible, tech. bleached, non-ret., drns., 1.l., works	.28	_	Magnesium sticolluorido, bgs., c.l., 1.l.		- 41
- 1	unbleached, non-ret., dms., t.l.,	.26		werksib. Megnosium stoarotu, bulk, t.tib.	.184 .95	1.8
•	Lemon cil, Argentina kilo	14.00	700	Megnosium suifute 10% Mg. (epsom		
ı	Grazii	8,50 9,00	7.00 8.36	88 13), loch. bgs., l.l., worksb.	.14 .13	:
١	Italianlb. Lemongrass oil, Indian, druskilo	12.50 11.25	-	USP, cryst., bgs., some basis . b.	.139	
١	Gueternelan, drnslb. di-Leucine, drns., 1 kilo works kilo	2.25 80.00	90.00	USP, cryst., hulk, same basis . D. Magnesium sulfate. 17% Mg. (ayn-		•
•	Ucortice root, whole, ble lb. gran., ble lb.	.40	.50 .80	thetic monohydroto), lech. bgs.I.L., worksbs.	.80	1
١	powd., bis	.85	-	CP, some hards	1.27	
	tongle).	01 00001	ii adieu sa-	bus., 1.1., works	1.70	•
	Lime, chamical, pebble (quicklime), bulk, 50,000 lbs., works, f.o.b.	86.07		Megnosium sulfato trihydrale, toch bgs., 11., works		•
	Lime, chemical, hydrated, bulk, same	39.00	45.00	Magnesium trislicato, USP, powd., fb. dras. 5,000-b. lotsb.		
	basieton	48.00 54.00	50.00 57.00	USP, micronized powd., dms., 375-lb. lotsb.	.83	:
	Lime, NF, purit., 100-lb. dms lb. Lime oil, dist., Mexican, dms lb.	0.00	=	Malethion, lock, drns , 1.1., works 10. Maletranid cryst., powd., drums, 100	1.02	
	Haitian, dist., dma	0.60 17.50	-	kilos, Lo.b	0.24	
	Lime salts (see Caldum).		-	Moleic ordiversio, bea., L.L. Works, In	.85	. 1
	d-Limonana, dmakilo Linakol ax bols derose oli, dma ib.	.70 8.35	.85 -	equaldb.	.83	
	syn., 98-100% dms., f.o.b. works ib. Linelool oxide, syn., 55-gal. dm ib.	2.93 7.75	_	Melto ecid, purif, and food grades. 50- ib. bgs., t.L., c.t., divd		å
	Linslyl acetats ex bola de rose cil, 90- 92%, dmsib.	18.00	21.00	Mandarin oil (ace Tangerine oil, Italiari) Mandalic acid, dms., 1,000 kilo		10%
	syn. 98-100%, dms., f.o.b. works. b. Unally benzoate, syn., 55-pai, dms. lb.	3.10 8.00	_	Manageresa ocetata, dihyorate, dms.	476	ď
	Linelyi oinnamete, syn., 56-gel. dmsib.	59,85		dvd	,48	18
	Unally formate, syn., 55-dat ons., 15.	7.75	8.50	Mangangsa borate printing the orier. No.	- 60	*
	Unalyi laobulyrale, syn., 65-gal. dmab.	8.50	8.55	Mangarese borete, tech., dms		
	Lindens, 20% formulation, dma., divd	13.10		ib. lots or more, works ib	1.05	
	divd	8.50	-	Mengenese chloride, anhyd., ome-	.01	•
	dms 55-gal.	7.90	_	Manganese dioxide, nat., Amcart 9 1-		
	without leaves, bisib.	.78	.85	RASK MANO game basis tor	260.00	289.00
	Lineard meal (ase Oils, Fate & Waxes m	erkal rand	1.16 ort).	Manganese dioxide, syn., cryst., bat tery grade, 90%-92% MnOs		1 70
	Linseed Oil letty sold, dist., drns ib.	.60	.87	I INTER MAN C.L. WORKS		. ,
	Litharge, com.l., powd., bos., c.l.,	.53	.62	chemical, terrile grade, same by		
	Uthlum bromide, anhyd., dras. Log	,384	2 .60	Menganese onconers, roo gara	3,50	. 3
	soin, sama heris	8.27 4.00	-	Manganese hydrete dris., dvo.	911	3.5
	Li. dvd	1,60	_	Manager almosphilip No. 1	A	
	divd		y - 1	chip, build, o.t., works.	363	0., ,
	soin., dms., cl., tl., divd ib. Lithium fluoride, dms., c.i., tl., divd. lb.	3,32 2,94	-			1
	Transparent Language (C.).	4.90	-	dms., divd	4	1
				7,1	12 14	1

			-				
	Cithirm by dride, c I., 11, divid. 10,000 or more	23.50	~	Manganese resinate, fused, 3/2% Mn.	.3414		Me
ŀ	dana.c (. t1 dvd	1.93	'n	One day him day (b.	.42	-	4,4
l	Lithium hypectriculte, c. L. T.L., works. b. Lithium mend, 1,000 lb. lots or more, olid b.	1.07		Manganesa suifete, fartilizar grade, run-ef-be, 76%-78% MnSO ₄ , 25 kgo bga., 50-toncara, divd.			١,
l	lots	22.70		E. of MSS	280.00 245.00	-	Ma
l	Lithium suitale, entrydrous 11 covd b	3.25 1.01 3.09		Manganese surete, 20% to grand	330.00	-	Me
l	Lithot red Joner, barlum, dms., fr.	3.27	i	Hanganese taliste, IQ., 0% Mil., circle.,	.60	-	Me
١	Lithol rubino toner (red 57), resinated	250	:	Manniel, coml., powd., dms., L.L., works	3.02 -88	.89	8-A
I	dms , int. end	5.80	1	Egypten.	.61	.82	Me
ļ	Lycopodium, 50-lb. dms	5.75 8.00 p		MBTS (see Mercaptocettane 4.4dl-(SOC)	(de). yanate)		1
Ì	grade, 10,000 lbs divdlb.	1.35 1	B.	Mollest Das., C.I., £1., 40,000-lb. min, £0.b. works	.51½ .50	.59\2 .58	١,
ĺ				Melamine formaldenyou resm, g.p., t.t.	.55	.60	!
I	M			molding compounds, same be-	.48V2	-	Mid
I	IVI			Menhadan oil, crude, tanks, works At- lentic Coast	.11 .12	-	
l	Maco, East Indian, sillings, ib.	4.95		Guif ports, same basis			Mi
ı	Slauw #2		d .	son tisp resemic 100-450 lbs. lb.	8.75 9.00	7.50	
ı	grade, bgs., cl., tl., works b. Magnosia, syn., lech, chamical-	.75	ŧ	2-Mercapiobenzothiazole, Dg5., 1.1., works, frt. akd	1.25	1.55	U5
١	grado, bulk, c.l., t.l. works	330.00		Mercaptobenzoth/azyf disulfide 1.1., dra., works, int. and	1.33	1.68	1
	bags, c.i., t.i., some basis ton deadburned, bulk, same ba- els	385.00	•	100-to dris., 1.o.b. works Ib. Marcuric oxide, red, purif., 100-tb.	8.50	-	Ми
	bgs., sama basis	409.00	١.	drs. I.o.b. workslb. tech., 100-lb. dms., same be-	7.00	7 25	Min
	mesh, bulk, c.1, 1.L, l.o.b. Nav	232.00		yellow, NF, 100-lb. dms., same be-	7.00	7.00 7.25	Mo
	90%, 325 mash, sama basis jon Magnesium bromide, 60-lb, dma., hex- abudrate	255.00		tech., 100-lb. dms., sama ba-	5.50	7.50	Mo
	Megnesium carbonata, lighi, lech., bgs., c.l., t.l., worka, irt.	2.30		Mercurous chlorida (see Calomai). Mercury, ammoniated (see White precipi			Me
	USP, life bgs., c I , same bs.slslb.	.73 .74	II B	Methacylc acid, glacial, 99%, dma.,	.45 .87	-	
	USP, heavy, bgs., c.l., same basislb. Magnasium chlorida, anhyd., 92%,	.83	•	11, irt. squaid ib. tanks, works, frt. squaid ib. d-Mathamphatamina hydrochleride,	.78	-	Mo
	lieka or pebble dms , c.l., works	.12%	B	di-Meihemphetamine hydrochloride.	12.00	16.00	Me
	Magnesium chioride, hydrous, 99%, fiske, bgs , c i., works ib. Magnesium ginconste, 100-fb. dms.	.14/2	•	Methanol, syn., bargas, 1.o.b.	4.50	7.00	Mo
	Lo b. works, E	4.25	•	producing point, Guil Coast	.28 mine)	~	
	dms., c.l., t l., works iri.	.78	•	86% activity t.t., frt. aid 1b.	.86	_	Mo
	Megnesium leuryi sullata, tanks, f.o b. worksb. Magnosium metal, 99.8%, ingols,	.22	Ž;	liquid, 88% activity, I.f. frt. sid ib. d-Mathionina (see Racsmethionina)	.88	-	Mo
	10,000-lb lots or more. f.o.b. Frueport, Texb.	1,63	:	Methoxychior, 50% wetteble powder,	205	_	Mo Mo
	Megnosium nitroto, tech., flake, 250-	.32	1.33	dvd E	9.40	_	Mc
	Magnosium ovido, U5P, light, bys., c.l., works, Irt oquald	1.65		Hethyl abietals, hydrogeneted, non- ret. dms., L.c.i., same be- sis	10.00		Mo
	hoovy, dma., c l., sama bosislb. Magnesium oxido, lock, (see Magnesia	1.54	•	mainyr scatoscetale, East, divd.	10.00		1
	Megnosium phosphoto, tribasic, loch. 60-lb, bgs., l.o.b	t.00	٠	Methy acondition Mathemati	66.00	-	Mo
	Magnesium sticoliuerkie, bgs., c.l., 1.l. werks	.1845	.15	Methylamytecohol, tanks, dvd lb. Methylamytetone, tks., dvd lb. Methylanthreniiste, lech., dnse.,	.55 .541/2	-	Mo
	Megnosium stearotu, bulk, t.t lb. Megnosium stifute 10% Mg. (epsom	.95	13	Methyl benyouse three at	1.41	2.65	1
	881(9), loch. bg8., l.l., worksb.	.14 .13	:	Methyl bromide, clar., tanke, 140,000	1.85	-	١
	lada, santo bosis	.13%	:	400 through 4 000 cost 50 to	.5614	-	Mo
	Magnoslum entialo, 17% Mg. (syn- thetic manohydroto), lech.			ייין מין מין מין מין מין מין מין מין מין	2.73	-	Mo
	CP, some banks bs.	1.25	•	15 cm) 50 lb. bags, 11., cl.,	0.85		Mo
	Magnesium sulfate, enhydrous, CP bys., 11., works	1.76	•	4,000 cns) 60 th box	2.85	-	1
	Ogs., 11., works	.40	٠.	Methylcefulose (visc. 16 to 25 mm) 50	2.24	-	Mo
	USP microuland powd., dms.,		. :	Min. dvd., zone 1	2.52	_	Mc
	375-lb. lote	1.52		Methyl chorology (see 1,1,1-Trichlarce)	.26 hono).		Mu
	dums tone Lo.b klos	2.80	i	Methyl ethyl strategy. Ib.	8.00	Ξ	Mt Mt
	Maleic onlydride, bgs., t.t., works, tr.	.55		Hethyl formula 25-lb. cns lb.	.235 3.55	3.80	M
	lenke works, irt. equald		7	lanks, same basis	.41 .20	=	My My
	Mandarin oil (see Tangerine oil, Italiary, Mandalic acid, dms., 1,000 kilo		105	Methy benterol, syn., 55-gal dms. Ib.	.31 14.50	-	My
	Manganesa ocetata, dihydrate, dins.	ATIL	#	Kerty neptin carbonate, dris. In	7,30 45.00	-	My
	dvdb. tetrahydrate, dms., I.I., divdb. Manganose borate printing ink drier.b.	1,60	18	. somy kalone, lanks rited	7.00	8.40	
	Manganese borete, tech., orns			Mothy isolated territorial (see Methy) army	.51 (alcohol).	-	
	prade, 48% Mn. bgs., 20,000	1.05		Gyd. Tone 3 (W. of Rocking an	.35	=	
	Mengenese chloride, anhyd., dms. 20,000-tb. lets or more b.			Western State of Land State of	.41 8.60	10.40	Ne
	Manganese dioxide, nat., African, 970- 74%-78% MnO ₂ , 100-b. bgs- 1., works	200.00	385.00	Methyl nephthyl kalons, cryst. dns. Methylpreben USP, 500 klograme, Lob.	.82 14.00	-	Na Na
	Managana dlavide eva. CVSL bat	200.00	THE .	I.c.h. Soo kilograme, seh 500 kilograme, kilo	10.14		-
	10015 bys CL works.	10	J.	Mode E More, 80%, dris., Int.	8.70	-	Ne
	chemical, territe grade, same be- als	As a		Mid E to so so one in. Middly pherylacetate, dris. ib. Middly 2 pyrrolidone, tarks, 1.o.b. plant.	1.65 3.60	8.40	Ns Ns
	100-ig dina, 1.01, works	30		Memory CL LL same haste	1,32 1,40	-	Ne
	Manganese hypophosphire, Nr. 1	870	1	Methyl selevials NE 4000 Ib.	5.60	-	
	Manganese metal, electrolytic, No. chip, bulk, c.l., works	3630.	ř.	Methy what from Mality rossanting the	1.79 oride).	1.84	N
	Manganese naphthenete, iq., 6% in diss., civo	661		Metry Yold (see Methy) roseen Fins chic toner, may be deted, PMA. toner, sayd. E. of Rockies. Ib.	3.25	-	b-
	7.7	1					. ·

_	Mathy violet longr tripostered 67%				
	Methyl violet lener, tungstated, PTA, bbia, same trasis b. 4,4,-Methylono dianiline (p.p-di-	4.70	5.20	Naphthol stylide red toner deep shades, bits	86
	eminodiphonyl methene) crude, dms., i.i., i.o.b ib. puril., flake, samobesis ib.	1.75 2.25	-	1-Naphthol-5-sulloric acid (seed	
	Mathylene di-p-phenylene di-laccyenato 4.4di-isocyanetei	fsee diphen	ylmethane	Naphthylamine sulfonic mixed acid (see S	ncio Bva
	Methylane chloride, lanks, 4,000 gal. min., consumers, divdlb. Methylpentanediol (see Hexyland glycol)	.35	-	1-Nephthylamine-5-authoric actitions	2.1
	Metnytphonylpryazotone (see 1- Phenyl 5).). -3-methyl-p	yrazolone-	2-Naphthylamine-1-suffooic acid (see C	
	a-Methylstyrene, f.o.b. shipping ptib. p-Methylnaphthalene, bulk, works on	.44 1.38	-	Nestafoot ol. 20°F, I.I., 1.o.b. works drns	.5
	Methythlorine chloride (see Mathytene t Mica, dry-grd., joint cament, plastic 50	blue).		tanks, 10.b. works	
	ib., bgs., c.l., worksb. dry-grd., roofing, 20 to 80 mash.	.071/2	-	tanks, 1.o.b. works	3
2	workeb. paint or lecq., wel-grd., 325-mesh, bgs., c.l., l.o.b. worksib.	.07	-	Philadelphia, Pa.; other areas, 1 to	a N
	rubber, bgs., c.l., f.o.b. workslb. walpaper, bgs., c.l., f.o b. works. ib.	.16%	-	higher and West Coast 3c. higher Neomycin sulfate, USP, non-sterile, dms., 50-kilo. tols, activity ba-	•
	Microcrystalline wax, petroleum, cost- ing grades, FOA, lanks,			Naopentyl glycol, siurry, 80% _ cl. 11.	76,
	works. b. lamineting grades, FOA, tanks, works. b.	.381/2	.481/2	divd b. powder, fiske, bgs 1.1., divd lb. Neiol, techt, dms	
	tanks, refy	.381/2	.48	Neroli of, Tunisian, bots	5. 4. 000
	65-75 vis., lenks, refy get. 80-90 vis., lanks, refy get.	2.42 2.45	2	Nerolin, Bromein	7.
	145-155 vis., tanks, refy	2.53 2.54	Ξ	Macin NF, dms., 5,000 fotos or more,	8.
	200-210 vis., tanka, rotygsl. 340-350 vis., tanks, retygsl. Mineral spirits, petroleum, odorless,	2.66 2.85	-	feed-grade, 98-98.5%, bgs., same basis	7.
	tanks, Now Jarsey gal. Houston, Tox	1.83 1.78	1.88 1.79	Nickel ecetate, dms., 5,000-bs, to j.l., divd. E	1
	lanks, Now Jerseygal.	1.41	1.48	lbs. to t.l., divd. E	3
	Houston, Tex	1.41 1.52	1.43 1.85	Nickel chloride, bgs., 10,000-lbs. to t.1. divd.Elb. Nickel fluoborata, fig. conc., dms., 1.1.	1
	99.0%, dms., works b Molybdanum trioxide, CP, dnis.,	13.50	-	divd E	1
	works, 24,000 lbs. or more.lb. lech., chemical, dms., 24,000 lbs. er	5.25	-	Nickel nifrels, dms., bgs., t.l., divd.	3
	more, basis,	2.65 2.65	2.85 2.85	E	1
	Mofybdic acki (See Ammonium Dimolybi Monoamnionium phosphala, leri. grado, niii. 13% N. 52% P.	dater		Nickel suite te, bgs., f.l., divd, E, ib, Nicotinic acid (see Niach).	'
	bulk, c.l., I.o.b. Fle.	155,00	_	Nicolinamide (seo Niacinamide). Nitric ecid, 36° Be., 38°Be, 40°8e,	
	Monoammonium phosphate, lech , bgs., cl., 11, works, 11			42°89. lanks, c.l., works NF, 100% basis	18
	lood grade, 199., cl., 1.l., same basis 100 lbs.	54.00 59.25	-	100% basis fon o-Nifroaniline, flake, dms., 1.l.	28
	Mono-let f-butyl-m-cresol, fulk, t.t 1b Monobutylemine, bulk, dlvd b.	1.89	1.00	molten, reld , tanks, works lb.	
	Monochloroacetic acid, purif. (see Clifor Monochlorobenzono, mnks, f.o b., ib.			molfen, tech., works lb o-Nitreanline, orange foner, bgs., frt.	
	Monoethanolnmano, trinks, fri alid, E	.43	-45	p-Nitroantine, dins., c.l., t.l., 30,000 fb. min., works b.	
	Monosthylanum, 70% aqueous fenks, fri. prapekt, 100% besis ib. aniyd., janks, same basis ib.	.94 .92	-	o Nitroanisolo, 100 kilo lota kilo Nitrobenzene, tanka, I.o.b	
	Monoisepropanolamine, dms., c.l., in, eliri. E b.	.75	_	o-Niirochigrobenzene, dms., [.i., c.i., i.o.b. ib., ib., fenke, same basis lb.	
	Monoisopropylemine, anhyd., dns.,	.66	-	2-Nitro-p-cresol, tech., dms., t.l., frt. elid	
	c.l., irt, prepaidib. tenks, sume basisib. Monogettyleming, enhyd., fanks, con-	.78 .78		Nitroethane, tanks, divd. E	
	fainorf besis ht. oqueid ib. 25% soin., tanks, irt. slid. 100%	.5414	-	over 32% N, and rigit type, works	
	bnsie	.57	-	N	
	Monopolassium glulameto, dms., 890	.631/2	-	Chicagounit ton.	r zanii
	lb. or more, frt. Alid b. Monesodium giutamate, 50-lb. bgs. c.l., f.f., divd lb.	2.50	.80	NOTE: Price is per unit NH, plus \$1, per producer, s works, Chicego. Nitrogenous tunkage, processed, bulk.	Min
	100-lb. drims, Cl., I.I., dlvdlb. Monosodium phosphale (see Sodiumph	.85 m eleriquo	enobasic).	per unit-ton NH ₃ , f.o.b. Carrol- wile, Wisc	2
	Montan wax, crudo, imp., German . ib. dom., Calit., bgs , c.l., 1.l., f.o.b.	.55	.57	expanded, bulk, c.i., per unit-ton N, f.o.b, Forresidalo, R.I. unit ton	
	shipi, pi	.81		Nitromethane, dms., I.I., dlvd. E ib. o-Nitrophenol, dms., f.o.b. works ib.	1
	Morphine sullate, USP, 25 k lots klip Morpholine, dms., c.l., lrt. elid. E lb.	1.02	Ξ	p-Nitrophenol, dms., o.l., 1.0.b. worksb. 2-Nitropropene, tanks, frt. alid. E ib.	1
	lenks, Irt. olid., E	.84 8.00	7.00	m-Nitrotokene, tech., dme., irt. ald. lb. c-Nitrotokene, dms., c.l., l.o.bb.	1
	Musk.syn., embrette, 25-lb. oneb. Musk.syn., ketono, dma lb. Musk.syn., xylol, dms b.	10.76 3.60	-	p-Nitrololusne, 1ech. dms., c.l.,	
	Mustard oll, eyn. [see Allyl Isothlocyanal) Mustard seed, Brown No. 1 b.	22	-	tanks, works	
	Canadian No. I Yellowb. Oriontel No. I bgsb.	.23	=	les, min. frt. alld	ylpro
	Myrde oil (see Bay oil). Myrietic acid, comil., pue, t.l., bgaib. tanks	1.3D 1.12	-	Nutmeg oil, dist., East Indian, NF, dine	27.
	Myrisica oli (see Nutmog oli). Myrrh gum, bgs b.	2.25		Nulmage, East Indian, wholefb.	3.
				V	
	Marking high ash carry (see Bohron) nor	htha petro	letani).	Octive (see Iron oxide, yellow, nat.)	
	Naphtha, high solvency (see Solvent nap Naphtha, petroleum, ceaners (see Clear Naphtha, YM&P, petroleum, tanks,	ner's naphth	a).	Ocotea, Chinsas 90%	5.
	New Jensey and New York-	1,29	1.34	1-Ootacecarrol, syn., tanks, 1.o.b b. I-Ootanol, syn., tanks, 1.o.b b. n-Ootans, 87% min., tanks, 1.o.b.	
	Nachthalene, crude, dom., 78°, tanks,	1.20		Houston, perfumer's crade, bots.,	6.3
	Naphthalena, phthelio anhydrida	2315	-	n-Octyl, n-decyl phthalais, tanks,	1.4
	Nephihalene, petrosum, au D.	.30	321	lert-Octylemins, dms., c.l., 1.l., works. Octylemenol, mollen, 1.o.,	2
	Naphthalene, reid., para, mines, mines	.65	17	Works	
	Nachthenic acid, cruds, bulk, works ib.	15 76	1.00	Oleic acid. dbl. dist., (white), dins.: . lb.	
	h Marking from Rake 80-10 both Gill	1.81	1 N	Oleka sold, a.d. (red) drns	
	Works.	E 1. (a)		October 20, 1986	į.

	Ighi shades, bbls b.	8.60 7.76	- 1	
	1-Naphthol-5-sulloric acid result and	ult (see Pla	alt).	
10	1-Naphthol-5-sullonic 8-amino eckl (see S Naphthytamine sullonic mixed acid (see Ckl 8-Naphthytamine tarks	ecia).		IV
	e-Naphthytamine, tanks, f.o.b. works			
		2.10 5ni'e acid).	-	ID
e -	2-Nephthylamine-1-suffonic acid (see C		d).	
	dms	.52	_	I ===
	30°F, I.I., I.o.b. works	.47 .52	- 1	WEE
	40°F, dms., t.l., f.o.b., works	.44 .48	49	Oleum (se
	tanks, 1.o.b. works ib. Delivered prices apply on shipments with	30		Olive oil, a
	Philadelphia, Pa.; other areas, 1 14 higher and West Coast 3c. higher	A Mahar 1	reciusoi rexes, 20.	Olivine, c
	NEOMYCIN SUITAGE, USP. non-starile	•		20 m 100 m
	dms., 50-kilo. tota, activity ba- ala, divdkilo.	76.00	_	Oplum.
5	divd	.522	_	Orange
	Neiol, lech., dris	.598 6.30	6.75	expres Calif.,
	Neroli oil, Tunisian, botskio18	4.80	5.00	Florida Brazilia
	Nerolin, Bromelin, Ido	7.05 7.22	-	Wast
	Niscinamide, USP, I.I. drns kito. Niscin NF, dms 6,000 tidos or more,	8.00	Ξ	Orange p
	l alter tile	7.50	-	Oregano
	feed-grade, 98-98.5%, bgs., same basis	5.10	6.60	Origenu
	divd. E	1.82	_	Orris roo
	divd. E	3.45	_	Veron
	divd.E	1.19		Ourloury Oxalic e
	Nickel fluoborate, fig. conc., dms., 1.l., divd. E	1.25		b-Oxyn
	NICKEI MEISI, BIECTTO CETHODES, CS.,		-	Oxyquin
	Works	3.45	-	Oxyqui
	Nickel exide, 75%-78% Ni. dms. 500-	t.18	-	
	Nickel suitete, bgs., f.l., divd, E., ib.	2.60 .80	.90	
	Nicotinic acid (see Niach). Nicotinamide (see Niachamide)			
	Nitric ecid, 36° Be., 38°Be, 40°8e, 42°Be, 1anks, c.l., works NF,			
	100% basis	185.00	~	
	941/2% to 98% HNO3, tanks, works, 100% basis fon	280.00	~	Palladii
	o-Nifroaniline, flake, dms., 1.l., works	1.51		Palm o
	molten, reld , lanks, works lb.	1.44	-	lank s.d.,
•	molfen, tech., works	1.80	_	Paim
	p-Nitroantine, dins., c.l., t.l., 30,000 fb.	1.63		Palma
	min., works	8.75	.34	Palmit
	Nitrobenzene, tanka, I.o.b,	.33	٠٠٠,	Papav
	fenka, same basis	.82 .74	Ξ	Papriki Spar
	2-Nitro-p-cresol, tech., dms., t.l., frt. elid lb. Nitroethane, tanks, divd. E lb.	1.75	-	Paraffi
	Nitrogen solutions, direct application,	250	-	
	over 32% N, and mgf. type, worksunij-ton.	1.20	-	
	Nunit-lon.	1.28	1.46	ela
	Nifrogenous sewage sludge, proc- es d, bulk, f.a.b.			AMP
	Chicago unit ton. NOTE: Price is per unit NH ₂ plus \$1, per	4.10	bulk f.o.b.	Parafor
	producer a works, Chicago.	,		Paraide
	Nitrogenous tankage, processed, bulk, per unit-ton NH ₃ , f.o.b.Carrol-	7.00	_	tanks
G).	Iville, Wiscunii ton	8.75	-	Parathic Parathic
	expanded, bulk, c.l., per unit-ton N, f.o.b. Forreeldalo, R.I. unit ton	8.36	-	Para tor
	Nitromethane, dms., I.I., divd. E lb. o-Nitrophenol, dms., f.o.b. works., . lb.	2.37 1.00	Ξ	Patchou
	p-Nitrophenol, drns., o.l., f.o.b. worksb.	1.05	1.45	Palchou Peach k
	2-Nitropropene, tanks, frt. alid. E lb. m-Nitrotokuene, lech., dme., frt. alid. lb.	1,15	Ξ	Peanut r
	tanks name beats	.65 .48	.57	Peotin d
	p-Nitrololuene, 1ech. dms., c.f., works	.83	.85	Pelargor
	tanks, works	.70	-	Penicilin
	lea, min. frt. alld	.48	.531/s amine by-	Penicilin
	drochlofide)	, 		Pennyro
	Nutneg oil, dist., East Inden, NF, dine	27.00 3.16	28.50	Pentach
_	Nulmege, East Indian, wholefb.	0,10	اجامني	Penteen
_				Penteery
				Pentaery
	V			Pantoba
				Pantoba
•	Ochre (see Iron oxide, yellow, nat.) Ocotsa oymbarum ol dime	6.05		Pentylen
	Ocotea cymbarum oil dma kilo Ocotea, Chinsad 90% kilo	5.25 5.25	-	Pepper,
	Ocotes, Chinase 90% kšo 1-Octadecariol, syn., tanks, I.o.b b. I-Octanol, syn., tanks, I.o.b b.	43V ₂	-	Malaba Malaba
٠	n-Octana, 87% min., tenke, 1.0.0.	6.25	-	Tellich Peoper, r
	Could alcohol meritimer's Ottode, Dote.	1.40	1.75	Halmer Lilling, b
	n-Ootyl, n-decyl phthalais, tanks, dvd	331/2 -	.37	Indian, 8 Pakista
i	lert-Octylemins, dms., cl., 1.1., works. Octylphenol, mollen, 1.o.,	2.60	·	Papper, v
	works	.76 40	7812	Pepperm
	Official oil, liq. dins	40 32		Willem

		وسيوس ويورون الاستان الأدار المناز الاستان المتار المناز المتار ا		
60 .76 (see R s (d). o's ackd)	_	CHEMIC	A	
.10 l'e acid) sella aci	-	PRICES		
.52 .47	-	WEEK ENDING OCT 17,	1986	
.52 .44	-			
.48	49	Oteum (see Sulfuric acid, furning). Olibanum gum, tears, bgs ib.	2.10	_
.39 300-ml	erediusol	Olive oil, edible, Spanish, dms gal. Italien B-type	8.00 5.40	5.50
	Гехаз, 2о.	Olivine, cruda, worke ton 20 mesh. works ton 100 mesh. works ton	12.00 15.00 20,00	-
5.00	_	Oplum. USP, gran. powd. 25-klio		
	_	Orange oil, expressed, USP, Calif.,	125.00	-
.522 .588	- 1	dms., I.o.lb. plant	1.20 1.00	1.20
5.30 4.80	6.75	Calif., dist., cns. f.o.b. plant lb.	.40	-
0.00	5.00	Florida, dms	.60 1.20	.55
7.05 7.22		Wast Indian, bitter, NF X, one.,	13.00	_
B.00	-	Orange peel, bitter, Hallian bis Bb.	.38	_
7.50	_	Oregano, Greece, 30M	2.60 2.80	Ξ
5.10	6.60	Mexico	1.05	-
	5.50	Ortis root, Florentine, bis b.	35.00 4.00	
1.82	-	powd. bbls., bxs	4.60 3.00	5.00
3.45	-	pewd., bbls., bxs	4.60 3.25	5.00 3.35
1.19	-	Oxelic ecid, oga., cl., works lib.	.44	-
1.25	-	b-Oxynephtholc ecid dms, works, tech	2.55	-
3.45	_	Oxyquinoline base, pure, 1,000 lbs., in. alid	8.00	-
t.18	-	Oxyquinoline auliete, 100 iba. iri.	4.00	-
2.60	_			
2.00	_			
.80	.90	P		
.80 85.00	.90	P		
	.90 ~ ~	Palladiummetal, worksTroy-oz	134.00	1 mg
85.00 80.00	.90 ~ ~	Palmoli, (590 Oils, Fats & Waxes Marke Palmoli acid, dbi-dist, dms	t Report) .31%	-
85.00 80.00 1.51 1.44	.90	Palmoli, (sec Oils, Fats & Waxes Marke Palmoli acid, dbi-diet, dms	t Report) .31√₂ .30	-
85.00 80.00 1.51 1.44 1.37	.90	Palmoli, (sec Olis, Fats & Waxes Marke Palmoli acid, dibl-dist. dms lb. tanks lb. s.d., dms lb. tenks lb.	t Report) .31%	- - .46
85.00 80.00 1.51 1.44 1.37	.90	Palmoli, (sec Clis. Fats & Wsxes Marke Palmoli acid, dbi-clist. dms. b. tanks. b. s.d., dms. b. tenks. b. Palm kernel oil, bulk, c.i.f., U.S.	.31½ .31½ .30 .42 .35	.46
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75		Palmoli, (sec Clis. Fats & Wsxes Marke Palmoli acid, dbi-clist. dms. b. lanks. b. s.d., dms. b. s.d., dms. b. tenks. b. Palm kernal oil, bulk, c.i.f., U.S. ports. b. Palmarosa oil, Indian dms. kito Palmite acid, 90%, tech., bass. b.	.31½ .31½ .30 .42 .35 .10 38.00 .53	-
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75	.90	Palmoli, (sec Oils, Fats & Wsxes Marke Palmoli acid, dbi-dist. dms ib. lanks ib. s.d., dms ib. tenks ib. Palm kernal oil, bulk, c.i.f., U.S. ports ib. Palmarosa oil, Indian dms kito Palmite acid, 90%, tech., bags ib. Pagaverine hydrochlorida, NF powd.	.31½ .31½ .30 .42 .35 .10 .38.00 .53	-
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33		Palm oil, (sec Oils, Fats & Waxes Marke Palm oil acid, dbi-dist, dms	1Report) .31½ .30 .42 .35 .10 .38.00 .53 .51	-
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74		Palm oil, (sec Oils, Fats & Waxes Marke Palm oil acid, dbi-dist, dms	.31½ .31½ .30 .42 .35 .10 .38.00 .53	-
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33		Palm oil, (sec Clis. Fats & Wsxes Marke Palm oil acid, dbi-dist. dms. b. lanks. b. s.d., dms. b. s.d., dms. b. s.d., dms. b. b. Palm kernsi oil, bulk, c.i.f., U.S. ports. b. Palmarosa oil, Indian dms. kito Palmarosa oil, Indian dms. kito Palmarosa oil, Indian dms. b. tanks. b. Palmarosa oil, Indian dms. kito Palmarosa oil, Indian dms. kito Palmarosa oil, Indian dms. kito Palmarosa oil, Indian dms. kito Palmarosa oil, Indian dms. kito Palmarosa oil, Indian dms. kito Panks. b. Papaverine hydrochloride, NF powd. https://doi.org/10.1001/j. Paparerine, 100 AU bgs. b. Paparerine, fully-reidd, 127-130 f., ASTM, Paparerine, fully-reidd, 127-130 f., ASTM,	1Report) .31½ .30 .42 .35 .10 .88.00 .53 .51 58.00 .80	.101
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74		Palm oil, (sec Oils, Fats & Wsxes Marke Palm oil acid, dbi-dist, dms. b. lanks. b. s.d., dms. b. s.d., dms. b. reinks b. Palm kernal oil, bulk, c.i.f., U.S. ports b. Palmarosa oil, Indian dms. kilo Palmitic acid, 90%, tech., bags b. tanks b. Papaverine hydrochloride, NF powd., imp. bulk kilo Paprika, Hungarian, 100 AU bgs. b. Spanish, 110 AU bgs. b. Paraffin, hully-reid., 127-130 F., ASTM, tanks, refy 130-135 F., ASTM, tanks, refy.	1Report) .311/2 .30 .42 .35 .10 .38.00 .53 .51 58.00 .80 .90	.104
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74		Palm oil, (sec Cits, Fats & Wsxes Marke Palm oil acid, dbi-clist, dms	1Report) .311/2 .30 .42 .35 .10 .38.00 .53 .51 58.00 .80 .80 .90	.10s
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74		Palm oil, (sec Clis, Fats & Wsxes Marke Palm oil acid, dbi-clist, dms. b. lanks. b. s.d., dms. lb. palm kernal oil, bulk, c.i.f., U.S. ports. b. Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Palmarosa oil, Indian dms. kilo Papaverine hydrochloride, NF powd. https://db. https:	1Report) .311/2 .30 .42 .35 .10 .38.00 .53 .51 58.00 .80 .90 .29 .331/2 .35 .411/2	.10%
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.60	.34	Palm oil (sec Oils, Fats & Wsxes Marke Palm oil sed, dbi-dist. dms. lb. lanks. lb. s.d., dms. lb. palm kernal oil. bulk, c.i.f., U.S. ports lb. Palmarosa oil, Indian dms. kilo Palmitle acid, 90%, tech., bags lb. tanks lb. Papaverine hydrochloride, NF powd. lmp. bulk lb. Paprika, Hungarian, 100 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 150-135 F., ASTM, tanks, refy. 130-135 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 12% oil, tanks refy. 20% oil, tanks refy. 20% oil, tanks refy.	1Report) .311/2 .30 .42 .35 .10 .38.00 .53 .51 .58.00 .80 .90 .29 .331/2 .35 .411/2 .18	.103 - - - - - - - - - - - - - - - - - - -
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.50 1.20 1.28	.34	Palm oil "(sec Clis. Fats & Wsxes Marke Palm oil acid, dbi-clist. dms	1 Report) .311/2 .30 .42 .35 .10 .38.00 .53 .51 .58.00 .80 .90 .29 .331/2 .18 .21 .18 sigher than 4	.103 - - - - - - - - - - - - - - - - - - -
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.50 1.20 1.28	.34	Palm oil "(sec Clis. Fats & Wsxes Marke Palm oil acid, dbi-clist. dms	1 Report) 311/2 30 31/2 31/2 31/2 32 35 .10 38.00 .53 .51 58.00 .80 .90 .29 .33/2 .35 .41/2 .18 .18 algher than the	.103 - - - - - - - - - - - - - - - - - - -
85.00 86.00 1.51 1.44 1.37 1.80 1.63 8.75 2.50 1.20 1.20 1.28 4.10	.34	Palm oil "(sec Clis. Fats & Wsxes Marke Palm oil acid, dbi-cist. dms ib. lanks ib. s.d., dms ib. s.d., dms ib. tenks ib. tenks ib. palm kernal oil, bulk, c.i.f., U.S. ports ib. Palmanosa oil, indian dms kilo Palmate acid, 90%, tech., bags ib. Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Spanish, 110 AU bgs ib. Spanish, 110 AU bgs ib. Paraffin, fully-reid., 127-130F., ASTM. tanks, refy. 130-135 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 160-155 F., ASTM, tanks, refy. elack wax, 5% oil, tenks refy. 20% oil, tanke refy. AMP temperatures are an arbitrary 3F is Paraformaldehyde, 81%, liake, bgs. c.i., Li., divd ib. 85%, powd. bgs., c.i., 11. divd. ib. Parafdehyde, loch., 98%, 55-gal. dms., 17, divd. E ib.	1 Report) .311/2 .30 .42 .35 .10 .38.00 .53 .51 .58.00 .80 .80 .80 .80 .80 .80 .80 .80 .80	.103 - - - - - - - - - - - - - - - - - - -
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.50 1.20 1.28	.34	Palm oil "(sec Cits. Fats & Wsxes Marke Palm oil acid, dbi-ciet. dms	1 Report) 311/2 30 30 42 .35 .10 38.00 .53 .51 58.00 .80 .80 .80 .80 .80 .80 .80 .80 .80	.103 - - - - - - - - - - - - - - - - - - -
85.00 86.00 1.51 1.44 1.37 1.80 1.63 8.75 2.50 1.20 1.28 4.10 1.28 4.10 1.29 8.75	.34	Palm oil "(sec Cils. Fats & Wsxes Marke Palm oil acid, dbi-cist. dms ib. lanks ib. s.d., dms ib. s.d., dms ib. s.d., dms ib. tenks ib. Palm kernal oil, bulk, c.i.f., U.S. ports ib. Palmarga oil, Indian dms kilo Palmarga oil, Indian dms kilo Palmarga oil, Indian dms kilo Palmarga oil, Indian dms kilo Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Spanish, 110 AU bgs ib. Spanish, 110 AU bgs ib. Paraffin, huly-reid., 127-130 f., ASTM, tanks, refy. 130-135 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy. 12% oil, tanks refy 150-155 F., ASTM, tanks, refy. elack wax, 5% oil, tenks refy 20% oil, tanks refy AMP temparatures are an arbitrary 3F / Paraformaldehyde, 81%, tiake, bgs. c.i., Ll. divd bb. 85%, powd. bgs., c.i., 1L divd. ib. Parathion methyl, dms., frt. alid ib. tanks, divd. E ib. Parathion methyl (see Methyl parathion). Paratonar red, bble ib.	1 Report) 311/2 30 30 42 .35 .10 38.00 .53 .51 58.00 .80 .80 .80 .80 .80 .80 .80 .80 .80	.103 - - - - - - - - - - - - - - - - - - -
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.50 1.20 1.28 4.10 1.28 4.10 8.76 8.76 8.76 8.76	.34	Palm oil "(sec Clis. Fats & Wsxes Marke Palm oil acid, dbi-dist. dms. b. lanks. b. s.d., dms. b. lb. s.d., dms. b. lb. Palm kernsi oil, bulk, c.i.f., U.S. ports b. lb. Palmarosa oil, Indian dms. kilo Palmite acid, 80%, tech., bags b. b. tanks b. lb. Papaverine hydrochloride, NF powd. hyb. bulk kilo Paprika, Hungarian, 100 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. Spanish, 1 f0 AU bgs. lb. 12% oil, tanks refy. 12% oil, tanks refy. 12% oil, tanks refy. 20% oil, tanks refy. AMP temparatures are an arbitrary 3F / Paraformaldehyde, 81%, ltake, bgs. cl., Ll., divd. lb. Parathion, ethyl, dms., frt. alid. lb. Parathion methyl (see Methyl parathion). Para toner red, bbls. lb. chlorineted, (red 4) kgs. lb.	1 Report) 311/2 31/2 31/2 31/2 31/2 32 35 .10 38.00 .53 .51 58.00 .80 .90 .29 .33/2 .35 .41/2 .18 .21 .18 .39/2 .78/2 .78/2 .78/2 .78/2 .78/2 .78/2 .78/2	.10s
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.60 1.20 1.28 4.10 8.75 8.36 2.37 1.00		Palm oil "(sec Cils. Fats & Wsxes Marke Palm oil acid, dbi-cist. dms ib. lanks ib. s.d., dms ib. s.d., dms ib. s.d., dms ib. tenks ib. Palm kernal oil, bulk, c.i.f., U.S. ports ib. Palmarea oil, Indian dms kilo Palmarea oil, Indian dms kilo Palmarea oil, Indian dms kilo Palmarea oil, Indian dms kilo Papaverine hydrochloride, NF powd. ib. Papaverine hydrochloride, NF powd. imp. bulk ib. Spanish, 110 AU bgs ib. Paparifin, huly-reid., 127-130 f., ASTM, tanks, refy. 130-135 f., ASTM, tanks, refy. 140-145 f., ASTM, tanks, refy. 140-145 f., ASTM, tanks, refy. 12% oil, tanks refy 150-155 f., ASTM, tanks, refy. 12% oil, tanks refy 20% oil, tanks refy ASTM, tanks, refy 150-155 f., ASTM, tanks, refy 150-155 f., ASTM, tanks, refy 12% oil, tanks refy ASTM, tanks, refy 12% oil, tanks refy ASTM, tanks, refy 12% oil, tanks refy 150-155 f., ASTM, tanks, refy 12% oil, tanks refy 150-155 f., ASTM, tanks, refy 12% oil, tanks refy 150-155 f., ASTM, tanks, refy 150-155 f., ASTM, tanks, refy 12% oil, tanks refy 150-155 f., ASTM, tanks, refy 150-155 f., ASTM, tanks, refy 12% oil, tanks refy 150-155 f., ASTM, tanks,	1 Report) 311/2 30 42 .35 .10 38.00 .53 .51 58.00 .80 .90 .29 .331/2 .35 .411/2 .18 .21 .18 .391/2 .781/2 .785 3.76 18.50 18.00	.103 - - - - - - - - - - - - - - - - - - -
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.50 1.20 1.28 4.10 1.28 4.10 8.76 8.76 8.76 8.76	.34	Palm oil "(sec Clis. Fats & Wsxes Marke Palm oil acid, dbi-dist. dms. lb. lanks. lb. s.d., dms. lb. palm kernal oil, bulk, c.i.f., U.S. ports lb. Palmanosa oil, indian dms. kilo Palmite acid, 90%, tech., bags lb. lanks lb. papaverine hydrochloride, NF powd. kilo Paprika, Hungarian, 100 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 127-130F., ASTM, tanks, refy. 130-135 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 12% oil, tanke refy. 20% oil, tanke refy. 20% oil, tanke refy. AMP temperatures are an arbitrary 3F in Paraformaldehyde, 81%, liake, bgs. c.i., Li., divd. lb. Paratition, ethyl, dms., frt. alid. lb. Paratition methyl (see Methyl paratition). Para tone red, bbls. lb. chlorinated, fred 4) kgs. lb. chlorinated, fred 4) kgs. lb. parathonioli, liconesian, dms. kilo Palehouti oil, liconesian,	1 Report) 311/2 30 32 32 35 10 38.00 53 51 58.00 .80 .80 .80 .80 .80 .80 .80 .80 .80	.10s
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.60 1.20 1.20 1.28 4.10 8.75 8.36 2.37 1.00 1.05 8.35 8.35 1.00 8.75 8.75 8		Palm oil "(sec Cits, Fats & Waxes Marke Palm oil acid, dbi-cist, dms. b. lanks. b. s.d., dms. b. s.d., dms. b. s.d., dms. b. s.d., dms. b. tenks. b. Palm kernal oil, bulk, c.i.f., U.S. ports. b. Palmarea oil, indian dms. kilo Palmarea oil, indian dms. kilo Palmarea oil, indian dms. kilo Palmarea oil, indian dms. kilo Papaverine hydrochloride, NF powd. inp. bulk b. papaverine hydrochloride, NF powd. inp. pulk b. Spanish, 110 AU bgs. b. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. Spanish, 110 AU bgs. lb. spanish bellevit by stanks, refy. 130-135 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 12% oil, tanks refy. 20% oil, tanks refy. 20% oil, tanks refy. AMP temperatures are an arbitrary 3F Paraformaldehyde, 16ch., 98%, 134e, 134e, 155. c.i., Li, divd. E. lb. Spanish on methyl (see Methyl perathion). Paraton methyl (see Methyl perathion). Paraton methyl (see Methyl perathion). Paraton oil, Indonesian., dms. kilo Paech kernel oil, USP (see Apricot kernel Peanut med (see Oils, Fats & Waxes ma Peanut oil see Oils, Fats & Waxes ma Peanut med (see Oils, Fats & Waxes ma Peanut oil see Oils, Fats & Waxes ma Peanut med (see Oils, Fats & Waxes ma Peanut me	1 Report) 311/2 30 32 32 35 10 38.00 53 51 58.00 .80 .80 .80 .80 .80 .80 .80 .80 .80	.10s
85.00 86.00 1.51 1.84 1.37 1.80 1.63 8.75 2.50 1.20 1.28 4.10 8.76 1.28 4.10 8.76 1.20 1.28		Palm oil "(sec Clis. Fats & Waxes Marke Palm oil acid, dbi-cist. dms ib. lanks ib. s.d., dms ib. s.d., dms ib. s.d., dms ib. tenks ib. Daim kernal oil, bulk, c.i.f., U.S. ports ib. Palmanosa oil, indian dms kilo Palmite acid, 80%, tech., bags ib. tenks ib. Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Paparika, Hungarian, 100 AU bgs ib. Spanish, 110 AU bgs ib. Pareffin, fully-relid., 127-130F., ASTM. tanks, refy. 130-135 F., ASTM, tanks, refy. 130-135 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 12% oil, tankerely 12% oil, tankerely 20% oil, tankerely 20% oil, tankerely ib. B5%, powd. bgs., c.i., 11. clivd ib. Parathlon, ethyl, dms., frt. alid ib. Parathlon, ethyl, dms., frt. alid ib. Parathlon, ethyl, dms., frt. alid ib. Parathlon methyl (see Methyl parathlon). Para tonar red, bbls ib. Parathlon idl, indonesian, dms kilo Palehouil oil, policy fees Apricot kernel Peanut meel (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Peanut oil (see Oils, Fats & Waxes marke Pe	1 Report) 311/2 30 32 32 35 10 38.00 53 51 58.00 .80 .80 .80 .80 .80 .80 .80 .80 .80	.10s
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.50 1.20 1.28 4.10 1.28 4.10 8.36 8.36 8.37 1.00 1.05 8.36 8		Palm oil "(sec Clis. Fats & Waxes Marke Palm oil acid, dbi-dist. dms. b. lb. s.d., dms. b. ports. po	1 Report) 311/2 31/2 31/2 31/2 32 30 42 35 .10 38.00 .53 .51 58.00 .80 .80 .90 .29 .33½ .18 .18 .18 .18 .28½ .78½ .78½ .58½ .78½ .78½ .78½ .78½ .78½ .78½ .78½ .7	.101 - - .35 .39 .417 .46 - - - - - - - - - - - - - - - - - - -
85.00 80.00 1.51 1.44 1.37 1.80 1.63 8.75 .33 .82 .74 1.75 2.60 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.00 1	1.46 bulk, f.o.b.	Palm oil "(sec Clis. Fats & Waxes Marke Palm oil acid, dbi-cist. dms lb. lanks lb. s.d., dms lb. s.d., dms lb. s.d., dms lb. s.d., dms lb. s.d., dms lb. palm kernal oil, bulk, c.i.f., U.S. ports lb. Palmarosa oil, Indian dms kilo Palmarosa oil, Indian dms kilo Palmarosa oil, Indian dms kilo Palmarosa oil, Indian dms kilo Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Papaverine hydrochloride, NF powd ib. Spanish, 110 AU bgs ib. Spanish, 110 AU bgs ib. Paraffin, fully-reid., 127-130 F., ASTM, tanks, refy. 130-135 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. 12% oil, tanks refy. 20% oil, tanks refy. 20% oil, tanks refy. 20% oil, tanks refy. 20% oil, tanks refy lb. B5%, powd. bgs., c.t., 11. clivd. ib. Parathion, ethyl, dms., frt. alid. lb. Parathion, ethyl, dms., frt. alid. lb. Parathion, ethyl, dms., frt. alid. lb. Parathion methyl (see Methyl parathion). Para toner red, bbls lb. Parathion methyl (see Methyl parathion). Para toner red, bbls lb. Parathion methyl (see Methyl parathion). Para toner red, bbls lb. Parathion methyl (see Methyl parathion). Para toner red, bbls lb. Parathion methyl (see Methyl parathion). Pacach kernel oil, USP (see Apricot kernel Peanut med (see Oils, Fats & Waxes marke Peotin dom., NF, citrus, powd. 100-kilo lb. Pelangonic pcld, net., tanks, min. frt.	1 Report) .311/2 .30 .42 .35 .10 .38.00 .53 .51 .58.00 .80 .80 .80 .90 .29 .331/2 .35 .411/2 .18 .21 .18 .391/2 .781/2 .781/2 .781/2 .391/2 .781/2 .391/2 .3	.101 - - .35 .39 .417 .46 - - - - - - - - - - - - - - - - - - -

biffion-unit lots, billionunits
lin, procains, sterile 50-billionunit lots, bulk. billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine to the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septimine the billion unite.
septim 14.00 32.00 2.28 2.30 2.28 2.35 89 1.00

tarks.
Ciela sold, s.d. (red) drins.
butter in the control of the CHEMICAL MARKETING REPORTER

equald......b.
Lactose, USP, spray dried, bga, Ll., int. equald...........b.

CH	EMICAL
PR	ICES

BRIAFA			bbla., same basia b. Phthalylsufacetamide, dms., 500-klo	
PRICES			Foreign and the state of the st	
WEEK ENDING OCT 17			dry basis, f.o.b. Charlotts,	
	, 1800		tech, paste, 25-lb. ctrs., I.I., dry ba- sis, I.o.b. Charlotts, N.C lb. Pigment green B, kgs lb.	1
Parchiorcethylene, dry cleaning grade, disir., tanke, divd ib. induat., grade, consumere, tanke,	.28Vz	-	Pliocarpine hydrochloride, USP, dms	,500
divd	.81 2.55	Ξ	Pimento see Alispice Pimento leaf oif, dms	14
Permanani red 29, (red 48), calcium salis, dms., frt. ald ib.	5.25	-	Pine oil, 80% min. alcohol content, bulk, I.o.b. works 100 bs	47
barium salts, same basis Ib. Peru balsam, 1.o.b Ib.	5.25 3.25	Ξ	dms., cJ., t.l., same	51
Patitgrain oil, Paraguay	5.00	-	a-Pirnene, perfume grade kito tech. grade	1
c.i. refy	.875 .310	Ξ	b-Pinene, perfumery grade, tanks kilo tech. grade, tanks	2
Lanks, retv	.375 .310 .370	Ξ	Piperazine, anhyd., dima., t.l., irt. aid.	1
USP, lily white, drns., c.J., refy b. Petrolsturn, USP, Litly white, tanks, refy	.305	_	Piperazine clirate, 36%, dms., 1,100- b, lots, frt. alidb.	2
USP, cream, drue., o.l., refy ib. tanks, refy ib.	.365	Ξ	Piperszine dihydrochloride, 58%, dms., Łi., frt. addb.	2
USP, soft yellow, dms., c.l., refy lb. tanks, refy	.350 .285	Ξ	Piperazine hecahydrete, 44%, dms., 1,100-b. lote, fri. ald lb. Piperazine phosphere, 42%, dms., LL,	1
USP, amber, dma., c.l., refy b. lanks, refy	.345 .280	Ξ	frt. sid	1
Petroleum pitch (see Asphalf, petroleum Petroleum sufonate, 60-62%, sufonic	.48 1 4	40	works	6
cont., HMW, bulk, works lb. MMW, same basis	.49	.49		560
Prices for 61% sufferic content 2c po sponding molecular wis.	ar Ib. fower		frt. elld	1
Phenocetin USP, pawd., 200-tb, dms., 1,000-lb, lots, dwd lb.	2.20	_	Polyester resin, unsaturated, g.p., or- thophthallo, bulk, tankcars, frt. sild	
100-lb. dms., 1,000-lb. lots, dlvd. lb. p-Phenaticine, dms., c.l., f.o.b lb.	2.22	2.45 _	isophthalic, same basis ib. Polyethylane resin, high-density, blow	
Phenobarbital, USP, dme., 600-kilo	18.50	-	molding, g.p., hopper cars, frt.	
iota Lo b. works kilo	27.00		Injection moiding, g.p.,hopper cars, irt. ald b.	
Phenot, syn. tanks, Irt. equaldlb. p-Phenotsulfonic acid, 85% sol'n., dms., c.t., fob workslb.	.25	.29	extrusion.g.p.,hopper cars, same basis	
tanka, same basis	.64 .58	Ξ	who and cable, nat., happer care, same basis	
Dags, c.f., l.o.b. works	2.33 2.68	Ξ	ele	
rnenyi acetete, dms., 100-ib. loje, works	1.04	_	iner, hopper cars, frtaidib. clarity lilm, hopper cars, frt.,	
Phenylecalic acid, pure cryst 25-lh	4.60	_	alid	
di-Phenyleisnine, dms., 25-kilo lots. kilo	84.00	-	extrusios coating, honner care.	
1-Phenyl-3-carbethoxy pyrazolone-5, dms. 200-lb. lots, divd.E lb. m-Phenylenediamine, casi, dms., c.l.,	8.45	-	same basisib. g.p., hopper cars, same basis .ib. Polyethylene linear low-density g.p.	
c-Phenylenediamina, Raked, dms. + 1	2.07	-	THE SET	
p-Phanylenedismine, flakad, dma.	3,25	-	blown film resin cear film resin Polyethylene resin, low-density injec-	
Phenylephrino hydrochlorida, USP	4.00	-	tion moiding, g.p., hopper cars, same basis ib.	
100-kilo lote or more kilo. Phenylethyl scelate, dms lb. 2-Phenylethyl slochol, NF, dms lb.	3.35	185.00	line wire, CATV, power cable lb. wire and cable thermoplestic high-	
b-Phanylethylamine, dms., 30,000 lbs. or more, frt. alid	2.10	2.20	YOREGO, RETURN COLOR, SAME	
rnenyletnylphenyl acetete, 25-1b.	1.50 5.60	6.90	basis	
Phenyhydrazina 99% min dwe ib.	3.50	-	wire and cable tacketing, black in	
dris. 250-b. lotadivd F. in	1.30	_	Units min million units	
o-Phenylphenol, dms., 1.L., works b. p-Phenylphenol, bgs., t.L. 40,000 lbs. or more, works b.	1.35	2.00	Polyoxysthylene sorbiten monos- tearsts, dms., 20,000-lb. lots,	
Phenylpropanolamine hydrochloride, 100-kilo dmkilo	1.85	-	works	
F purit. cryst., dms.,	24.00 2.75	28.00	works	
	2.25 2.35	Ξ		
flake, E. Bo. Phioxins toser (red 90), dms., frt. alid. Bo.	1.95	2.05	high impact same have	
Phosgene, 1-ton ret. cyls., 5 to 9-cyl. quantities, works. 5b. Phosphats rock, Fis., land pebble, run of mine washed, 66-68% b.p.l.	.55	.67	each grade.	
of mine washed, 65-68% b.p.l. bulk e.t. mines ton	93.45		Polyatyrane resin, cryet., nat., hopper cars, int. alid	
Phosphoric acid, com'l. and tech.	23.15 28.00	Ξ	impact, nat., hopper cara, same ba- sisio. high heat, high impact, nat., hop-per	
Oredes, 75% tanks.	29.00	_	cars, same basis	
works 100 lbs. 80%tanks,works 100 lbs. 85%. N.F. tanks, f.o.b. freight	31.00	=	modified, same hasts	
Food grade prices \$2.00 above tech. g	33.50 yrade.	-	medium viscosity, has a t	
Phosphoric acid, agricultural grade, 52-54% e.p.e., tenke,	2.40		partially involved, medium viscos	1
works	3.10	-	Polyvinyi chlorida nasin a a hama	1
C L, works, fri. equald	3.45 1.00	-	divid	
Phosphorus oxychioride, tanks, irt.	.91	-	els Duik, same ba-	
Phosphorus pentseulfide, powd.	.40	-	Folywinyi chiorida o o constitución	
toto bus spiers (00)bs.	50.00 45.00	:	g.p. copolymer gizsnepston same	
Phosphorus pentoxide, dms., t.l., works	.82	-	Poppyseed Dutch has	
Phosphorus trichlorida, dms. c I	.38	-	Potash agricultural (see Potass) ib.	Q!al
tenks, works	.40 .35	-	works	
rminanc arnyonge, flake, o.l., t.l., dms., irt. ecuski	.30	_	Fr terminal	1
Prices t-11/c per in higher on the We	.27	-	reg. flake, 88-92%, 400-b. drns., c.l., works	4
Phihalmide, flake, worksb. Phihalocyanine blue toner, red shade, bbis., frt. ald. E. of Rockies	.85		works E	
		n -A		

			Potasalum bichromate, gran., 400-lb.		
Phthalocyanine blue toner, water dis- parasible, bbis., seme bs-	7.05	7 76	ems., c.l., 1.l., works	.48	-
SisD. Phihalogyanina green toner, ali grades,	7.05	7.75	works., fri. equald	45	49
bbis., frt. alid. E. of Rock-	8.10	10.10	bge	.90	1 20
Phthalocyanine green toner, resinated, bits., same basis ib.	7.45	9.20	100-1,000 lbs., works lb. Potessium bromete, gren., powd.,	10 00	20 00
Phthalyisuifacetamide, dms., 500-kilo fols	8.61 2.81	:	200-lb. dms., o.l., t.o.b. workslb.	1.06	
Picolines, refd, mixed, bulk kilo Picrio acid, pure peate, 25-ib. ctns., c.l., dry beate, f. o.b. Charlotta.	£4.	_	Potassium bromide, NF., gran., dms., c.i. l.o.b. works lb.	1.12	_
dry basis, f.o.b. Charlotte, N.C	5.00	-	Potassium carbonate, Eq., 47% K ₂ CO ₃ . (anks, t.w., works t00 lbs	14 60	
sis, I.o.b. Charlotte, N.C lb. Pigment green B, kgs lb.	5.00 2.20	-	dms., c.l., 11, works 100 lbs. calcined, 89-100% K ₂ CO ₂ , hopper	20 55	-
Plocarpine hydrochloride, USP, dims		00,000	cere of frucks,	32 50	-
Pimento see Alispice Pimento leaf oli, dms	14.50	-	bga, c.l., t.l., works 100 lbs drume 100 lbs	35 20 36 40	:
ine oil, 80% min. alcohol content, bulk, I.o.b. works 100 lbs	47.00	53.00	Potessium carbonets, gran., puril., 400-lb. dms., 5-dm. lots lb	.40	.46
dms., c.J., t.I., same basis 100 lbs	51.00	54.00	Potessium chlorete, cryst., dms . c.l., works	14%	
-Pinane, perfume grade kto tech. grade	1.62	.23	powd., dms., c.l., worksib. puril., gran., 325-ib. dms., I o.b.	.30	
Pinene, perfurnery grade, tanks kilo tech. grade, tanks	2.30 .35	.40	Potasskim chloride, chemical grado,	.40	-
iperazine, anhyd., dma., t.l., irt. ald. Eb.	1.80	-	99,95% KCl, buk, c.l., l.o.b workslon	105.00	-
iperazine citrate, 36%, dms., 1,100- ib, lots, frt. alld	2.25	2.35	USP gren., drns	1.t2 .57	:
iperszine dihydrochloride, 58%, dms. Łi., irt. aldb.	2.00	-	USP powd., dma	.87 tassium mur	- laloj.
perazina haxahydrate, 44%, dms., 1,100-b. lote, frt. ald lb.	1.60	-	Potessium chromete, puril., cryst., dms., works	.57	-
iperazine phosphate, 42%, dms., LL, frt. aid	1.80	-	Potessium cirete, NF, gran., 200-lb. dms., frt. alidlb.	.931/2	-
iperidine d'at. 98% min., dme., c.l., t.l., works	6.92	-	Potassium cyanide, dms., 20,000-lb. lois or more, I.o.b. works lb.	1 32	
	5.00 560.00	-	Potassium dichromate (see Potassium bichromate).		
olycerbonate resin, pellate, net., Lt., frt. elid	1.84	1.88	Potsesium fluoborate, tech., dms., c.f., t.l., works, irt. equeid fb.	1.40	1.42
olyester resin, unsalurated, g.p., or- thophthalic, bulk, tankcars,	51		Poteeelum fluoride, snhyd., dme.,	1.58	1.74
int, alid	.51 .\$8	.63 .62	Potassium gluconate, dma., i.l., f.o.b.		· 1
olyethytene resin, high-denetry, blow molding, g.p., hopper care, frt.	49	10	works	t.45	-
alid	.43	.48	dms., 600 lbe. or more Irl.	210	
cars, irt. aid ib. extrusion.g.p., hopper cars, same hasis	.43 .47	.46	Potassium hydroxide, fech. (see Potesh Potassium hydroxide, 199, seitete	2.10 , caustic).	-
hasis	.47	.48	Potassium flydroxide, USP, pellets, 100-lb. dms., c.1., f.l., works, frt goueld	1.00	
wire and cable, black, same ba-	.55Vz	.49	frt. equald	1.29	1 31
olyethylene resin, kow-density, film liner, hopper cars, friald ib.	.38	.57	dms., 1,000-lb. lots divd lb. ACSgrade truckload lb.	10.72 11. 32	12 39 13 55
clarity lim, hopper cars, frt.,	.37	<u> </u>	Potassium-magnesium sulfate, atd., bgs., works ton	59.00	-
paret shrink film, hopper cars, same basis	.35		basis 40% K ₂ SO ₄ and 55% Mg3O ₄ bulk, works ton	87.00	-
extrusios coating, hopper cars, same basis	.38	.42	Potessium muriate, 80.83 43, min	.44	-
g.p., hopper cars, same basis . ib. olyethylene linear low-density g.p.	.39	.42	Poteselum muriere, 80-62.4% min. K ₂ O, std., bulk, c.l.,		
resinblown film resin	.38	.40 .43%	Canada ton	44.00	45.00
Cear num resin	.40	.45	Sask	47.00	
tion moiding, g.p., hopper cars, same basis	.45	.48	gren. (ch. Sask	40.00 50.50	50 00 51 50
wire and cable thermoplestic blob.	.847	-	Potassum nitrete, fert, grade, std., 50-	287.00	274 00
voltage, natural color, same	.70	.741/2	prilled 100 tech., gran., bgs., c.l., min. 60 tons, dvd. ton	277.00	284.00
14% carbon black same			I Gradowiii Ovarale, Institat (CCU., IUDe	470.00	-
wire and cable including black in	.67½ .587	.72Vs .667	gran., powd., 300-lb. dm., Iri.	2.54	-
unitsminmillion units	.52	-	cl. works	1.01	
tearate, dms., 20,000-ib, lots.		ı	Potassium pentaborate powdor 150, po	1.00	-
olyoxyethylene sorbitan tristagrate	.78	-	works.	.70	_
works. 20,000-lb. lots.	.73	_	Ing. bulk, hopper trucks		
O.D. nal. t.l. frt ald	.45	.48	60-kg, dris., same basis, lib.	1.09 1.20	:
copolymer, med. impect, sat.,	.50	.58	Poteesium permanganato, USP 50, in	1.17	-
high impact, same basis ib. Colored material 6c. per ib. higher for each grade.	.53	.60	Potessium persuitete 225.0 dine	1.38	-
olyatyrane resin, cryst., nat., hopper			Diani	70.86	_
etsbest user unbbet cars same be-	.48	-	Potassium pyrophosphato tetrahado	72.60	-
high heat, high impact, nat., hop-per cars, same basis	.51		equald the works, E., frt.	43.75	47.25
onde 1 000 to los	.52	-	Potassium saleviate, USP crap 200	48.00	49.50
olyvinyi alcohol, fully hydrotysed	.69 .73	:	Works, Irt. alld	1.52	
died viscosty, bgs., t.l.,	100	4 64	Of Mora, same have	1.42	_
IN DOM 11 CHARLE VISCOS-	1.00	1.05	Se., 2.5 ratio 1 0 1 1		
polymer dispersion has no	144	-	dms. of the works 400 lbs.	18.90 25.80	_
g.p. suspension, bulk, same be-	.50	-	10, tc., 11, works 100 lbs	25.05	_
Dipe grade, bulk same baste	-38 -47	-	41. 11 works	32.05	_
Polyvinyi chloride, g.p. construer die	.37	.A7	30-30.4 9a. 2.1-2 2 ratio		
g.p. copolymer suspension, same	.68	.81	des of 11 system 400 to	28.10 33.10	-
Poppyseed, Dutch, bgs b.	.45 .59	.49	th works	63.30	
Potash agricultural (see Polassium muri			1990 A 19		
Potash, caustic, iq., 45% basis, tanks, works. 100 lbs. West Coest, 50% basis, tanks,	18.00	_	Percentage by West	ht of SiO2	divided by
ex terminal 100 lbs.	18.08	_	frt sauste	111/2	.15
Potassumaceiele NF crep dres	42.35	_	Or nowd does ale, NF, gran.	.80	1.20
Potassium bloodenst	.90	1.31	Potesti za etapoeta de la Civila., Civila., Ib.	2.20 N.A.	3.10.
Potassium bicarbonata USP gran	31%		min. 50% K-O atd but at		
dra ti	• •	•	Botomb Works ton	150.00	150.00

		-		
_	Parameter 1		1	¥
	Forassium fetraborate, gran , bgt, ct works das , some basis.	1.10		R
	Potassam Intralavato powder 15c per l	t.15 m.Nghy	•	Pi Pi
	275 Rt dats 55 dat lots . b. loch rryst dats . t	4.01 .52	•	R
	Politismot-lilanum liuntide test	.71%		Ro
	dors 11. works for equidible for assum-zeromum fluorido, tech, dans 11. works, Iri.	124	ı i	Ro
	Printersona USP dms , 5 kalos or	25	.!	-
	Production ocolate, USP, cms. 5	t.00		
	I'rodosolimo, antiyd . USP, dna., 5	1.12	•	-
	The sine hydrochlorde, USP, anable the grade, does, 2,000 in	1.12		
	Province hydroxide days and the control of the cont	4.15	18	Sac
	Propentidelydo tanks for a	4.95	12:	Sal
į	Propionic nick), syn . pure, tanks, divd. b. n Propytecotate, tanks, divd	33	Xi	Sac
	n Propyl alcohol, lanks, dvdb. n Propyl galfala dms , 100 to 2,000-b.	.42	X -	569
	(1-Propyl-p hydroxylanzonia 115b	11.50	٠¦	34
	500 kilos kilo lectr. 500 kilos, l o b kilo Propyl paraben (see n-Propyl-p-bytioxy	10.80 10.38 benzoats)		Sain
	morn Dorn City	55.00	, i	Sale
	n-Propylamina, dms , c l , dlvdR., Propylene, polymer grade, l.a.b. Tax, and Le Outl Coast points .lb.	.75 .174	!	U
	Procylene elycot, indust, Tanks, Loh. Ib	.154	1	Sak
	USP, ranks, I o b E	.48		Sait
	renks, dvd Eb. Propyleno oxide, tanks, t.o.b. works, Int. equaldb.	47%		Salt
	Psyllium seed, USP powd bgsb. Purnice dom, fine, 4F-0, bgs, ton loiston	1.50 270.00	13	Self
	medium, 0° z-1°2, bgs , ton lots , ton coarso. 2-o are coarsa, bgs., ten	300.00	-	
	Punwo, Prip , Hahan, Inos, Igs., Ign	300.00	•	San
	lors to b Fast Coast	280.00 350.00	Ċ	Sch
	coarso, bys, fon lots to b. East Coast	300.00		Sco
	Pyrazolone rod (red 38), dms., worksb. Pyrothrum Ifawars, line grd. 0.9%	5.25	5 E	Sebt Sebt
	pyrethmas ton lots, irt ald b. Pyrothrum, purif. 20% pyrathrins,	1.91	173	Sele
	Pyrkling, rold, 2-deg, cf, works dms,	37.50 5.90	37	Sen
	Pyrithasimr fryirocidondo, USP, 100	5.70		T
	Pyrilus, Conordon 48-50% 8.	29.00 4.50	St	Ses. 365
	rnines long ten Pyrogathe ackt (see Pyrogatio) Pyrogatiol . 100-th dms., t.000-tb.			Sier
	kots, dent	13.70	112	800
	lack			
				CTE.
				SEC
	Quessischips	.57 co.75	27	
	niid. ib. rod, risnis , tri niist. ib. acgitut, rinus , irt. niid. ib.	20.75 17.75 21.75	18	36
	violat times his alid	21.76 17.75 2.00	T)	84
	Chirxmannel, fajs	4.20	똲	Sitv.
	Oninina frydroctionido, NF, 1,000-oz. dum, 2,000 az. or more. oz. Quinina nullinto, USP XVIII, 1,000-oz.	2.45	25 25	Sin
	Outputter ding 11 6t pound	2.30 1.46 1.43	:	Soa Po
	Tonka, Brima Dasis	1.00		806
			ŀ	S g
	K			Soci
		213		
	R salt lech., 304 melecular wt b. Recomothionine, USP, 50-260	8.80		fait 50
	250-500 kilos	8.60 8.60		ğı
	Construction day	386	3	be au
	drie.	22 00 . 0		Pric
	Red carmine. No. 40 (see Certin bits. Red precipitate. (see Mercuric code. red Reservice. USP, cryst., bols.,	0 10	0	Sod
	Reservine, USP, cryst., bols., graff. Reservino tech., bgs., t.i., works. dvd., kid. Reservinoi, USP, cryst., dms. 50 kid.	190		806
	or more, works.	9.90		800
	Hespectual Monoscensies and a P"	1,56		800
•	Rhodamina iad ioner, motypdated, PMA, dma, works	11.00		.800 800
	friillathing Livers alless . F		u e.	.1894

Rinconol, 25-in, cris.
syn, dris.
Rhuberb root, India, whole, bgs.
Rhuberb root, Carlotte root, India,

Rice bran of, refined dims. 11 ib.	1.25	-	Sestambe informate, HSP, powd , rog gradu fap , n L, t L, works, fre	
Air noet act these was an environ !	artrele).		April-1 1000s coare, sometrals 1000s	17 05 16 05
Record Digitale Constant allo	-	3990 00	fon, same bare 100 hs grant, same base 100 hs	17 20 17 65
polis knie knie	2250.00	3000 00	gran Jane same bare 1000bs Sedman behaviore gran Joge (171)	17 60
Rosame you, Alt Spanish will	8.75	15 00	Sestion biliners in 400 in does, et.	57
Potenone resin, 30-45%, 100-to dime- works		.23	At especial the 100 to bays of Lisamo bays the	76 70
^			Sodambaddalo, bala, cl., wasks 100 dms , cl. 100 ms	
Č			Section benitte, notycl bgs. cl. 11. works. East 100 gs.	28 50
•			Works, Wirst 100 Rbs Sextum bituitite, soir, 381, holk, 100%	32.00
V			SOLO 1041 I MARK WORKS, WOST 100 BY	20 60
secharin MF, grant, soluble, dma.	0.50	275	photographic grade, 43% suln , wisks 1000s	20 00
1,000-ID IOTS, III III D			Sixtum borato NF, gam, 1411, cl.	21 90
then 20,0004D. DOS, 21. BOU. AL.	.50	.53	powd, same trasas — Ib	51 52
adbie dns. N.Y., drvd	.98 1.95	1.02	Sodium bornhydride, provd , dins , 1000 5000 for works Ib	19 08
Tantonia.	I.EJ	t.30	Sodum borobydride, stabilized water som, 12° shabit, 100° sbasis,	
ege of, Clary, French, Doks	A.30	10 00	3000 gril lankwagon works ib Sodium bronisto, 99°s, gran , 400 ib	17.45
Spanish, cns	12.50 3.60	-	Sodium carbonale, decabydrate, bgs.	1 04
aicylamide, NF, gran., powd., dma., 2,000-b. lots, one ship lb.	1.07	1 t0	Sixhum cmlainathi, cryst monohytrato	264 00 (Gno Soi
alicylic acid, lech., dme., c.l., 1.L., works	1.23	1 41	holiom carlimnate, monobydratod, tags . c 1,14, works ton	392 00
USP, cryst., dms., 1,000 lbs. or	1.33	1.63	Sexhum carbon ymothyl collaboration C Sexhum abbarata, crysfal, bak, 1 c., 11.	MC)
USP, powd., dms., 1,000 lbs. or more	1.68	_	delivered, ITE . ron delvered, S.E ron	330 00 335 00
aio (see Phenyisalicylate). air, evaporated, common, 80-lb. bgs.,			Sodium chikarate, cryst, 450 lb dms, c1, works E lb	.27
cl, tl, North, works 80 fbs. buk, same basis ton	4. 02 60.00	81.20	Sodium chloride, fech (see Sail) Sodium chloride, USP, gran , bgs . to	.29
chemical grade, same basis 80 lbs. ait, rock, medium, coarse, same ba-	4.30	-	Sodium chlorile. loch . dms., c 1.,	1 17
buk, same basia ton	2.70 t8.00	25.00	Sodium chromate, enhyd, dms, c1,	.57
M.SO, beals, Lob, works E ton	65 00	98.00	Sodium chronialo, tetrahydrate, bgs,	.57
same besis W ton endelwood of, E. Indian kilo	90.00 145.00	99.00	Sodium chate, gran, anhyd. 200 lb	
indonesia kilo prosine, iech., Ianke, works, irt.	102.00	Ξ	Sodium cirate, USP, gran , dilydrate.	1 95
squeki	-50	-	100 lb 1igs , rl , forb ship- ping point	.74
besis, works	2.59	-	Sedium cyanafo, dnis 1,000-lb lots, works lb	85
100-oz fots bots oz. oscic scid, CP, bgs., c1, works. lb.	36.00	48 50	Sixform cyanido, linquettos or gran. 99° a min. 200 th. dats, min.	
puril, bgs, c1, works. ib.	1.95 1.94	-	Somum diacornio, milyd, dmn, cl.	.68
THE PARTY PURTY AGE TO BE CANNOT THE	.301/2	-	Sydem diacelnia, FCC, 50-lb. bys.	60
dvd	13.00 10.00	15.00	Finding discording took 50 lb days.	.51
hall, his	.75	.60	C1, winks	52
Trnevely, No. 1, ble b. powd, bbls, bxe lb. seems oi, USP, dms , Lc.L b	.70 90	.71 1.t0	or mixed til, to b. shipping	2.00
waging sand. Coults American	1.00	1.20	Prices W of Denver 2c per pound by Suddem Terrocyanide, hos. t.L.	ghor.
inded, bgs	.55	.58	works	.60
lci_works	.1912	.26\2 .23\4	11., works, frt. equaldlb. Sodium fluoridu, white, 97%, 400-b.	1 77
fice, amorph, dry-grd., bgs., c.l., works 93%, 200 mesh. ton	31.00	32.50	dms., c1, works, fr1 equald. Ib 100 bgs., c1., same basislb.	.63 .50
93%, 97%, 325 meshton	32.00 34.50	33.50 35 50	USP powd., 200-lb dms., 1.l., I.o h shipping pointlb.	4.89
98.5%, 325 mesh	37.00 51.60	54.60	Sodium lorniato, bgs., c.f., workslb. Sorikim glucanato, tech., 60-lb. bgs.,	.20
W. most misser, marks, 83.8%	72.00	75 50	2,500 lbs. or more int. elid lb. Section hydricia, oil dispersion, 60%	.60
foreigned Miler ulia, mil-	79.50	82.50	Nalt, 107-lb. dmg., 10 dmg., works	1.88
weight to mucrone, mi-	104.00	105.00	Soukum hydrosulfido. (see Sodium sulfi Sixhum hydrosullito, dins., o.l., t.l.,	
326	37.00	_	Lo.b. shipping point E ib. Sodium hydroxide, USP, polists, 160-	.64
COT MITAMONIA TON	34.78	-	ID. ORTS., CI., II., WORKS, IT.	.05
	.50 .38	-	Scattumrhydroxide, tech (see Soda, cas	
sarsa, works. Ib. Ner bullion, ingols, cs., Troy. Oz. Ner cyanide, 80% Ag, 500-0z. Jofe Oz. Ner citate, ACS, 38 2 Troy oz. AGJ 100 evoir, oz. AGNO.	5.66 4.43	=	Bockum hypophosphite, EN grade, 300 lb. data f.o.b. works lb.	1.420
	3.32	_	Finalism hypostuffie (see Bodium thiosal	fato).
peppers, Disabed, Dis. Disabed, Dis. Disabed, Dis. Disabed, Dis. Disabed, Dis. Disabed, Disab	1.00 1.36	1.85	Sodimr kolide, USII, cryst, 300- to 500- lb. lote, clms. lrt. squekt lb. Sodium leuryt sulfate, 30%, fenks.	14.72
	120.00	-	I.Q D. WOXKS	.29
100 b., paper bos. ol	83.00	-	Sudium tignin suitonats, bgs., o.l., works	25.50
da causic La sonia	150.00 123.00	-	Sodium motableuffie (see Sodium blauf Sudium motablerate, octahydrata,	.38
Coast works to b. trt		_	gran, bgs., cl., worksb.	.48
MA TAN AND BASIS	178.00 205.00	188.00 225.00	Socilum, metalic, 12-b, bricks, dris.	.93
	600.00	570.00	fused, dms. 24,000-lb. lots or more,	.87
101. 75%, 450-ib.dms of	520,00	570.00	tanks, works	.70
10%, 400 th days ton.	520.00		Sodium metaphosphate, tech. bgs., o.l., f.o.b. shipping pl. irl. equald	61.50
works. 100 lbs. 100 l	27.50 6r, Pricae in	28.50 Wast 20	I IOOO OO	88.25
de sel 0000	on higher to	or gran. and	Socken metaslicate sahed, 508, 01	27.25
Milm soules 100 lbs	3.35		bulk, c.l., works 100 lbs.	25.30
Maria Sostate Lines and Description	.54	3.86	pentahydrata, bgs., cl., 1.0.0. sop- olog polet 100 bs.	18.95
b.dns.cl. worksb.	.57	•	Sodum motybdete, arrhyd., dms. I.o.b.	17.20 4.87
Demission Des. Or more	10.	-	works, 100 be and overb.	4.12
TOTAL OF MARKET	8.00	6.75	Sodum naphthionate, ame., c.i., 11.	2.00
dur symmetre bgs. CL over P	473	-	frt. acuald	34.50
Clam have	1.49	1.60	SOOKIN AFRIC, COM, HOUSE IN 1999	284.00
fit. sid. tech., bgs., c.l., 1.L.,	9.30	10.50	bus, c.l., works	250.00
ALL THE USE BALL	.70%	-	but when	205.00 182.00
ton bis same bearings of the			and the state of t	
TUDAN TOWNS OF THE PARTY OF THE	.88%	Ξ.	and sedio ton	140.00
ton-bits, same basis. Ib.	.831/2 .881/2 .89 -	-	same basis	140.00 37.25
TUDAN TOWNS OF THE PARTY OF THE	88v.	-	and sedio ton	

eskumbe advande, HSP, posed , co]	Sodium orthodicate test	
glader lays and fill works fr April 1000h		Sodium orthosticate, tech., anhyd., 5gs., cul., works100ke. 34.50	
CAMPA CAMPA IN COME.	1605 _	County Utilities (CRIR 1906) Invientad	
First, Same Pares 100 lbs Quant, Same Pares 100 lbs		flake, drus, c.l., works. 100 Bs. 27.45 - Soften overlage of the contract of t	- N I
than but some pass. 100 by	17 60	Social oxalais, 99%, bgs., Lt., works. b. 45 -	- 44 L
िता सुन्नी, सहस्य स्थानसम्बद्धानामध्ये । सुन्नित्रमा सिक्स्यानस्य		Sodium peritachiorophenete, beads c.1, 30,000-lb min	
extens to the exemption of the second	· 57 _	Sortium penterbehildren n	
fit asjou'd a	76 _	Sodium peritobarbital (see Peritobarbital-codium).	
100 th bys of Learning to see the second market for second market for the second market	0 70 _ 0 17500 _		
dong cl. 100 in	13.00	Sodum persulists, 225-lb. dms., 24,000	
works, East 100 kg	. 20.50	55-D DOS camp back D	1000
Works, Wrist 100 Ry	32.00 _		1986
entam bisulfite, note, 1811, both, 100' have a marke Cast 100 lb	,	Sodum phenositionate, powd., dms., lb. 76 Sodium phenositionate, powd., dms., lb. 76 Sodium phenositionate, powd., dms., lb. 76 Sorbitan monostearete, dms., c.l., t.l.,	
scin 104" a tuck, works, West 100 to	5 20 60 - 5 20 00 -	I THE LOSS. C.I. I.I. WORKS MY I SULULUID. MIN I O h	
photographic grade, 43% sula		B. Works	.76
wisks 100 m. Salum bornto NF, gam, 1sq1, Cl	3 2190 _	Source prosprate, monobasic tech	.80
works . II		1 annecasis 100 hs. 5575 Scriptol, USP, reg. 70% aguscus.	
powd, same trasa — II iodium porobydrałe, provd "dios	52	Industry, 1901, 19	.35
1000 5000 Ret works R	19 08 21 00	1000 grade, same basis, 100 bs. 63.25 tanks, i.o.b. shipping point ib.	.30
column borobydrole, stabilized walk	Y	chlorinsted, same basis 100 bs. 31.50 gran., drns., c.l. t.l., works bb. cryst., tech., same basis 100 bs. 80.50 powd., drns., c.l., t.l., works bb.	.70
soin . 12" » Nathir, 100" » base 3000 g st. Lankwagen, weeks R	s, 0 17.45 -	Cryst., lood grade, same ba- Scybean med(See Oils, Fats & Waxes m	.68 erkel recort.)
extern from to, 99's, gran , 400 in	17.45 -	Sis 100 bs. 36.60 Sovbeanoil (See Oils, Fets & Wayes mark	ket report.)
dins , for brooks	104 _	WORKS In 10 Offic 1 OFFIcerial tentre Many Very line	.14
CT. LT. Works for	1 264 00 _	Soybean oil, acid, dbl., dist., dms ib.	.48
exhim carls make, cryst monohydra	fo (Gno Soria, ash)	it. dms., dry beals divd ib. 5.50 tanks	.43 .47
iolium carlionalii, inonabyilrato ligis (1,11, works), to		more, r.o.b. irt. altd	.38
exkum carbas ymeitryl collakson (50)	CMC)	Social pyrophosphate, acid, tech., bgs., Social Soc	2.50
delivered, H.E		rood grade, non-leavening, bgs., c.l., Midwest, native	14.00 11 10.00 1
delivered, ITE . ro delvered, S.E . ro	n 335 00 -	works int. equald 100 lbs. 81.26 - Far West, Scotch lb.	15.00 1
codium chlorate, cryst, 450 lb dms		CL. LL. WORKS	14.50 1 9.00
c1, works ER odiumchloride, fech (see Sail)	.27 –	St. John's bread, edible, bis ib.	.29
octum chlonde, USP, gran , bgs . b	.29 –	arihyd., tech., bgs., cl., i.i., works, frt. equald 100 bs. 44.76 - works.	N.A.
Odium chlorile, lach , dms., c 1,		bulk, hopper cara, asme ba- Stannicoxide, dms., works	N.A.
odium chromate, enhyd , dms , c1	117 127	Stannous chloride, anhyd., dms. wks . lb.	N.A.
11. works	.67 –	6/s	2.50
odium civoniale, letrahydrate, bgs c1,11, works	.54 -	Stennous oxide, dms., workeib.	N.A.
odium citrate, gran, anhyd. 200 lt)	works, frt. equald	N.A. 28
dms.c1,11,87 .R oduun olirate, USP, gran , d-tiydrate	195 -	USP, pewd., 200-lb. dms., t,000-lb. single-pressed, bulk	.28
100 in lags, rl, look ship).).	lots or more, same basislb. 8.05 - triple-pressed, bulklb. Sodium sesquicarbonats, bulk, c.l., t.l., 120.00. Stramoniumleaves, bgslb.	.32 .15
ping portif R odium cyanafo, dnis 1,000-ib lots		works	47.00
works	85 -	Dgs. C.1, t.l. works 100/bs. 198.00 - Strontium carbonate, glass grd., bgs.,	
Adum cyanido, linquellos or gran		Sodium silicate, solid, or glass, 3.22- 3.25 ratio, bulk, c.l., 1.l., Strontium nitrate, 50-15 bgs., c.l.,	.37%
99° onin 200 in dats, min In b works It	. 68 –	works 100 lbs. 15.70 - works 100 lbs.	51.50
offurn diacetate, anhyd., dmn., c i		bgs, c.l., t.l., works	.22
works FCC, 50-lb. bys		works 100 bs. 20.30 - Styrene-ecrylonitrile resin, nat., bulk,	
11 divit E of Rockies R	.51 .57	bgs., c.l., t.l., works 100 lbs. 22.t5 - f.o.b. plant	77 77
erhum diacotain, loch, 50 lb ikins cl., wrisks		ratio, bulk, c.l., f.l., frt. dear, same basis b	
odmin erythorbalii, powd., gran. 1		equald	
or mixed til, to b. shippin		percentage by weight of Na ₂ O.	
Priors W of Denvey 2c per pound i		Sodium swcornorde, bgs., cJ., I.I., Succinic enhydride, dms., c1., t1., f.o.b	
ndiem lerrecyanide, hga, t.l.		Sodium stansate, dring, white, firt, alid. E.lb. N.A Sucrose, refd., white, bgs., c.l., f.o.b.	. 1.7t
works	60 -	refy. E 100 /bs.	33.10
1 l., works, frt. equald lb). 177 -	Sodum sulfete, NF XII, powd., dms., 2,000-b. lotsb. 231/2 - Sucrose scetate, isobutyrate, 80% dms., £I., divdb.	1.18
odium fluoridu, white, 97%, 400-ft dms., c I , works, fri equald . ft		toch., delergenf, rayon-grade, c.l., tanks, divd	1.10
100 bgs., c I., seme basis Ib	50 -	works, Guil	1.t8
USP powd., 200-lb dms., 1.I.		frt. equald	
i.o h shipping pointit odium lernato, bgs., c.i., worksit		bulk, cl., East, same basston 113.00 114.00 works	12.50
orlam gluconata, tech., 60-lb. bgs.		Sodum sullste, photo grade, 100-lb. bgs., ol., works	39.50
2,500 lbs. or more int. elid Ib octum hydride, oil dispersion, 609		9 odkum suffhydrete, flake, 70-72%, kšlo. kšlo. kšlo.	25.00
Nal t, 107 lb. dng., 10 dns.		dms., c.l., works, fif. equaldton 500.00 - Sulfscatsmide, USP, dms., 500 kiloskilo.	20.00
works		ilq., 44-48%, tanks, works, fit.	
extum bydrosulito, dras., o.l., t.l.		kilos	53.00
I.o.b. shipping point E ib odium hydroxide, USP, poliste, 100	64 -	E., Irt, equeld ton 470.00 - lettes	40.70
ib. dris., cl., II., works, iri		Dgs., sams bass ton 410.00 - Sulfemerezine, USP, microcrystals,	40.50
equald	05 .95	works, E., frt. equald ton 240.00 - USP, powd., dms., 500 idios kilo.	33.50 32.00
extum hydroxida, toch. (see Soda, et odum hypophosphila, EN grade, 300	distro.)	Sodium sulfits, inhyd., tech. 85-100% Sulfamethszine-sodium, USP, powd.	
D. chas f.o.b. works lb	1.425 1.60	Sodium sulfocyanide CP (see Sodium thiodyanata). Sulfamethazine, powder, dms., 500	13.00
1 10 lb. daysb ndkun hyposulitia (soa Bodkum thos	ulisto).	Rodium totrahorate (see Borex).	9.00 1
column kolkde, USI', cryst , 300- to 500		Sodium tetresulfide. liq. 34%. dms., g.l., works., frt. equeldton 540.00 - 9 ulfamilo acid, cryst., bgs., c.l., t.i., works 100 ibs.	38.00 4
ib. lofe. dms. irt. equekl ib odlum jeuryi sulfate, 30%, fenks		Sodium thiocyanate, purif., cryst., 250-	
f.o b. works	29 .32	1 10 h. Works	.36
works 100 ks		tech., enhyd. dms., 2,000 lbs. or frt. equald	2.00
odkum metableulfile (asa Sodkum bisk	efits).	Roofern thiosurfate, tech., photo- grade,	.67¥z
udium moteborate, octahydrata gran., bgs., o.l., worksb		I solve 1084b, box. QL Un I Quifeculos velos veterinary, crarie.	
totrahydreto, gran, bgs, cl.,		enet paciabutata C.L. Li. 8000	8.00
Works	.48 -	hade	150.00
odkum, metalic, 12-lb. bricke, chis. c.l. works	83 -	Sodium stanate, const. out. 100. La. reny	125.50 125.50
firsed, dms. 24,000-lb. lots or more	A	bge, al, m. and, E ex terminal, Flotterdam long ton	135.00
worksb	70 .60	Sodem tripolyphosphate, fect., 598, 0.1. 1.0. b. tanks, Alberta, Canada, for US	102.00
odium metaphosphets, tech. Dos.,		tulk, hopper care, same basis, 100 lbs. 97.60 derik, ex-Temps, Fig	157.50
o.f., f.o.b. shipping p1. Ir1 equald	61.50	bulk, hopper care, same bases, 100 lbs. 97.00 dark, ex-Tampa, Fla tong-ton food grade, bgs., o.l., t.l., same base	
IOCCIOYADA IVOR C.I. I.O.D. 111, 600000		Goden buttering tech, high moly	18.60
ockum metaslicata schod., 508., 01	00.20	dms, 10,800 los, or more, in 8.00 5.60 [ump, same basis 100 lbs.	19.60
works	27.25 -	grade does 10.800 bs. of	
DUR. C.L. WORKS TUU NO.	20.00	TIKE B. SCHOOL PROBLEM COME.	17.60
pentahydrate, bgs., cl., i.o.b. ship ping point	10.00	COVST, CRITIS, VICTOR 100 IDS.	20.00
MINK OF WAYER	17.420	Coder total sublimed ME DO SER	
works, 100 be and over b.	4.87	Document suliste, dans., 1,000-	28,00
rnet dose ti time hates	4.12	18 Sulfur, rubbermakera, 99.6% min. pu-	. 1
odium nephthionate, dme., al., tl., 1a.b. works		isch, das, any quantity, works, b. 18 Supur, noncommerce, 99,594 min, pu- nty, commerce, 99,	14.40
OTE TO MITTAIN. LEST. DUS., U.S., SAIPI		aromatic D.J. 329 300 F	14.60
R L. BUDGIG		macri, serne Dates 100108.	15.60
odium nitrate, dom., industrial, bgs c.l., works	207.00	Control (Control (Con	.24
. bak.c., works	acquire .		1714
imp., comi., 100-b. bgs., c.i., Av., M	205.00 214.00	Solvent incomine, petroleum, streight erromatio, b.r. 360°F. Solvent incomine, petroleum, streight erromatio, b.r. 360°F. Sultur dioxide, iq., bulk, t.p., t.t., t.b.b. 410°F, 60°F m.e.p., terkst. 1,30 1,35 works. ton	280.00
Mark of Control (Mark)	- Ionica I	1.30 1.35 works ton Suffur monochioride, driss, e.l., works;	
eams had not ton	140.00	10 minutes and the second of t	.22% .19%
when pitries LICP date, d.L. WORKS,	of a Land of Sec.	100000000000000000000000000000000000000	
in equald 100 les.		Oblober 20, 1985 OHEMICAL MARKETING REPORTED	K,
工具的主要性的	大学 大海沟道	District the second state of the four formation of	
生物 化外孢形式物质		The state of the s	

17, 1986

lbs)
Sinsudi
ore,
4,
1ge1gaSintudi
hpg
tnk
(akbge
He)
tms
800
ogs
'12,
1er3ea
ime
ime
374

rar rai, ras) mi-ga-

132 lort 26 .te-

.15 .59 .44 .58 .43 2.70 15.00 12.00 16.50 16.25

	ننصوره	
Sulluric acid, virgin 100% tanka, works.		
East Coast lon	7).75	95.90
Gull Coast ton	75.00	85.40
Midwest ton	80.25	-
Southeas1 ton	58.15	_
	65.00	-
West Coast	mudikatu hu	7787
NOTE: For prices on 60 and 66 Be.,	COST Translate	- aloum
.9319, respectively. For price of	20% luming	1 045
is, add \$3-\$4 to above prices an	a murupiy oy	1.045.
Sulfurio acid, smelter, 100% tanks, wor	KB,	
Gulf Coast ton	48.00	62.00
New Mexicoton	20.00	25.00
Southeast ton	63,15	-
93%, tanks, divd., Northwest Ion	60.00	65.00
Sunflowerseed oil, crude, I.o.b. Min-		
neapolia	.14%	.18
Superphosphate, triple, 46% or more,		
auperprospriate, upta, 10 % or more,		
a.p.a., run-ot-pie, bulk, c.f.,	2.75	3.08
Fisunit-ton		185.00
bulk, gran., c.f., Flaton	160.00	100.00

a.p.a., run-ot-pile, bulk, c.f., Fisunit-ton bulk, gran., c.f., Fiaton	2.75 180.00	3.05 185.00
Talc, dom., grd. New York bgs., c.l., workston	84.00	_
99.5%, 325 mesh, bgs., c.i.,		90.00
Tale, dom., 99.5%, 400 mash, mi-	84.00	
cronized, bgs., cl., works ton 525 meeh, micronized, bgs.,	187.00	238.00
c.i., worke ton	200.00	- '
dom., ord., Calli. grd., bgs., c.L., workston	90.00	-
ord., Vermont, oif-color ord., bgs., c.l., works	136.00	- 1
imp., Canadian, grd., bgs., o.l., works	70.00	84.00
Tall oil, crude, Southessi, tanks, works, frt. equaldton	90.00	100.00
Tall of, reid., acid, same basis ib.	.31	-
dist., tanks, same basis lb. Tan oil ackts, 2% or more roain, tanks.	.19	23
works, frt. equald	.20%	231/2
Tallow (see Oits, Fats & Waxes market n		
Tallow, tatty acids, tech., non-ref. dms., cl., dvdb.	.37	.40
tanks, divd	.29	.45
divd	.37 .35	.33 .42
Tangerine oil, Fla., dms. t.o.b ib.	10.50	11.00
Italian, dms	52.90	-
New York, bulkunit-ton Tankage, fert. grade (see Nitrogenous)	5.50 2000 18	nkage).
Tennic acid, NF, fluffy, bbls., 1,000-lb.	8.09	
tech, powd., dms	4,62	-
Tar add oil, 15-18% tl., dma., f.o.b worksgal	1.40	- !
25-28%, t.f., dma., i.o.b. works . gal. 50-53%, t.f., dms., i o b. works . gal.	1.59 1.87	
Tertaric scid, NF, bgs	1.20	1.50
Terpinity drate, NF, imp., cryst., powo.,		
35 kilo drums, f.o.b. ship. pf., ht. squald	1.35	
Terpineol	2.40	
prime, dms	. 4.60	-
Tetrachioroethylene, tech. (see Perchi Tatrachioroethylene, USP, dms., cl.	orcethyle	ne).
Lf., works	30)44 -
works. Tetraethylene glycol, tanks, frt. sild. b	. 1.53	
Tatresthylene glycol diacrylate, 1		
dms. t.o.b. worksk Tetraethylenepentamine, tanks, sam	a	
besisR Tel/asthylthiuram dieuitide, 1ech		
fiake, dms , 1.1., fri. alid lt Tetrahydrofuran dms., c.l., 1.1., l.o.t	3.	
works	DC	
Tetrahydrofurfuryl alcohol tanks, f.o.l Memphis, Tenn	b. b9	0 -
Tetrahydrofinalool, syn., dms	b. 7.2	.0 -
c i., t.l. f.o.b. works	b6	5 -
Tetrasodium pyrophosphate (see So	odium pyr	ophosphate,
istrabasic) Thalfum metal, divd	b. 35.0	
Thailium auliate, 99%, bots., cilvd. k Theobromine, bulk f.o b. works	b. 4.1	
Theophylline, USP, anhyd. 50-kl dma , 10,000-kilo lote k Thamine hydrochloride, USP 100-k	10 ilo 12.1	00 t2.95
		00 31.00
Thiamine mononlimite, USP, 100-kill dms., dNd	D.,	
Thiodiphenol, 88%, dme., t.o. works	b.	35 -
Thioliavin green loners, molybdaid	:d,	
PAIA, dms	b . 5.	40 6.06 60 5.65
Thioglycolic acid, raid, dme., ton a 100% acid basis	R). 2.	07 -
Thiolnoigold marcon, dms., frt. alid. reds, dms., frt. alid.	ib. 7. Ib. 5.	50 - 88 8.12
reds, čms., frt. alid. Thionyl chloride, high-purity, 99.8 24,000 lb. mln. t.f., dms. l		_
equald		.55

	بالمرافي والمستمر والمستمر والمستمر		Turmeric, Alleppey over 8% b
The	orium nitrate, punif., dme., 100-lb.	2.75 -	Turrient, Alephey vota 7.2 Turpentine, Crude sulfate tanks, I.o.b. Southessi worksgal70 .00
40.7	hts or mora, worksklo. 1	28.00 - 1.45 -	SOUTHERS MAY 12
Thy	meleaves, French, bgs	.75 -	
Thy	me all, NF, red, ams	22.00 -	
I The	gmol NF	3.75 8.15	U
	WORKS	52.30 58.20 N.A	
Tit	metal (NY composits) ib. anium dioxide, anatase, bgs., 20-		Ultramarine blue pigments, 550- 2,000
	ton lots, frt. &kd		D. lots, works
	sia, frt. altd	.78 -	Umber pigment, burnt, American, frt. equald
1 114	inclots, irt. Sid 10.	.81 .84	raw. American, dom., Uga., I.d.,
	slurry enipments, 50 ton tols, dry basis, frt. alid	.84 -	Market acid drie works
N	on-chaiking rutile material costs 1c. per entum hydride nowd. olectronics		Ursa, 46% N, Ind., DUR, DU-ION C.I., ton 200.00 220.00
1	grade, dme	25.60 -	48% N, agricultural, busk, cavo, mad- ton 200.00 215.00
"	f.o.b. works	.30 .35 .50 -	48% N. agricultural, busk, divd. Wasi ton 210.00 - Uva-Ural saves, bis
Tit	antum anonga OR 3%, Ilber Crums.		OVERVIOUS CONTRACTOR
	leas than 5,000 lbs. 1.o.b. w/cs	4.85 -	11/
1	blas acid, 2,000 lbs. or more lb. LTocopherols, 57%, dms kilo	2.45 - 60.08 -	V
d-t	a-Tocopharyl scatate, 81% conc., kilo	57.48 -	
de	a-Toconharvi acid succinate, cryst.,	78.44 -	
dl	a-Tocopherol, datakilo	27.40 -	Valerian root, Beiglan, bge ib
ď-	a-Tocopheryl acatete, USP 50-Kilo.	18.00 18.50	vanadium oxytrichlorida, 3,000 lb.
l To	50% dry powd., 50-kilo dm kilo h i halsam, cns	17.00 - 7.60 5.68	cyle., works
To	okuene, petroleum, indi. Or nitration, teix		of V ₂ O ₆ , 550-lb. dms., works lb. 4.10 4.54 hased on fisks, per lb. V ₂ O ₆ , 550-
	Aflente, Gs., divdgel. Bayonne, N.J., divdgal.	.70 -	D. dms., works
1	Baytown, Tex., f.o.b gal. Chicago, Ill. divd gal.	.70 - .70 -	Vanille beans, Madagascar b. 37.00
	Ciairion, Pa., f.o.b gal. Deer Park, Tex., f.o.b gal.	.70 - .70 -	Vanto, USP, dera., f.o.b works lb. 8.25 -
	F1. Weyne, Ind., divd gal. Gulf Coast. spot, barges gal.	.70 - .68 .57	Versing An
1	Houston, Tex., dwdgal. New Jersey Metro, divdgal.	.70 - .70 -	extra
	Philadelphia, Ps., divd gal.	.70 -	Vetver oil, Bourbon, ameb. 19.00 17.00
l To	Providence, R.I., divd gal. duene di laccyanate (mbaed lacmers).	.70 -	Java
	80%, 2,4- and 20% 2,6- isomers, gumbo tankcars, divd ib.	1.01 -	GMB
P	Totuenesulforemide, powd., dms., t.l., worksb.	3.55 -	Virtyl acetate monomer, tanke, divd. b36 -
m	-Toluidine, tech., bulkb.	3.10 - .72 .75	Vinyl chloride monomer, polymer grade, tanks, f.o.b. works ib
- 1	Totuldine, tech., ilq., dins. c.J lb. bulk, same basis lb.	.60 .64	Vinyl ether, USP, enestheela, 75-cc. bots, hospitals, bots. 1.58 -
P	Toluldina, tech. cast solid,dma., cl.,worka	1.80 1.85	2-Vinybyridine I.I., dms. works kilo. 7.81 - tarks, works
1	Liq., tanke, same basisb.	1.70 - 1.65 -	Vinvitoluena, bulk, f.o.b
, ∤⊺	oluidines, mixed, o-m-p, tech., liquid, c.i. 1.o.b. works lb.	1.03 -	Vitanin A. synthetic, dry, pharm., 599,000 A. horts per gm., 50- kits, lets, kits A fine per gm., 50- kits, lets, kits 33.00 - A fine per gm., 50- kits, lets, kits 33.00
١.	bulk same basie	.95 -	Vitamin A, iiq. in oil, pharm., 1,000,000 A unite per gram, 10 kilo lots kilo 41.00 —
- 1	Cincinnati, Ohio	2.90 -	Vitamin A, feed grade, 650,000 units
ì	Tonks besne, Angostura, prima, 1,000-ib.lois	6.60 -	Vitamin B ₁ (see Thiamine hydrochloride). Vitamin 6 ₁₂ (see Riboflevin and Yeast).
	l'oxaphene, dime., c.l., L.f., worke 2b. Tragecanth gum, No. 1, ribbone, cns. 4b.	.38 - 38.00 40.00	Vitemin B ₁₂ , cryst., non-sterils, USP (cyenocobelemin), viele, 50-
- 1	flaked powder	12.50 15.00 .75 -	gram, totsgram 8.00 8.75 Vitamin B ₁₈ .1% trituralion of cryst. B ₁₂
	Iributyl offrata, t.l., drums, f.o.b.,	1.70 -	(cyanocobelamin USP) with dical-
	works	1.85 1.77	Chim phosphate, 25-kilo dms. kilo. 10.75 12.75 Vitamin B ₁₉ , 0.1% trituration of cryst.
- 1	Tributylamine, dms., c.i., divdib. tanks, same basisib.	1.39 – 1.33 –	B ₁₂ (cyanocobalamin USP) with mannitol, 25-kilo. dmskilo. 15.80 -
	Trichloroacetic acid, tech., 300-lb. dms., c.l., f.o.b., works lb.	.94 -	Vitemin B ₁₉ , cobalamin concentrate NF with mannitol. 1,000 mcg, per
	USP, 100-tb. dms., irt. equald ib. 1,2,4-Trichtorobenzene, pure, tanks,	.991/2 -	gram, dms, per gram activity 18.45 -
- 1	divdb.	.911/2 —	Vitamin B., 1% Vitamin B., USP, eb- scribed on 1981h, 5-kilo dms., 500- grem tots, fit.e#d. per gram adulthy 15.65 —
	sumers, divdb.	.401/2	Vitamin B ₁₂ , 1% cobalamin concentrate,
	1,1,2-Trichloroethane, tanks, 1.o.b. worksb.		NF, shearbed on resin, 6-kilo dris., int. ald. per gram activity 15.40 —
}	Trichicrosthylens, tanks, divd lb. Trichicroscocyanurio acid, dms lb.	.38½ – 1.25 –	Vitamin B ₁₂ , 1% cyenocobalemin in gelatin, 2.6-kilo dma., irt.
	Trichlorophenoxyacetic acid (see 2,4,5 Tricholine citrate, 65%, soin., non-ret.	i-T).	ildper gram activity t 5.40 — Vitamin C (see Ascorbic acid).
	dms., 1,500-lb. lots, divdb. Tricresyl phosphale, tanks, f.o.b	. 1.35 -	Vitamin O (see Cholecalcliero) Vitamin D ₂ (see Codiiver and Flahiver oils).
ļ	worke	. 1.60 1.76	
	Tridecyl alcohol, mixed Isomers, tanka divdb	57 -	Violet methyl toner (200 Methyl violet toner)
, }	Triethonofamine, 65%, tanks, clivd. E. b. 99%, tanks, earne beste b.	45 .48	
- 1	Triethanolamine Isuryi euliate, tanks f.o.b. worksb	27% .2	7/2
	Triethylamine, dms., c.)., divd [b tanks, same basis]	. 1.33 -	
5	Triethyl citrate, t.l., drums, t.o.b		
7	Triethyl phosphate, tanks, divd R	. 1.15 -	Workers O. R.M. date the last to the
	Triethylene glycol, tanke, f.o.b. Gull & Triethylene glycol dipelargonate, tank	8	Warlarin 0.8%, dms., ton lots, int. ald. New York or Chicago ib
	1.0.b. works	o29½ t.	Wheat germ oil, cold-preeaed, gal. 18.50 17.50
	equald	o. ,35 -	White precipitate, USP, powd., 100-lb. dris., f.o.b. works
	Tri-leo-lolyl trimelitate, 1.o.b. works i Tri-leobutylene, tanks, divd.	b61 .6	55 Writing (586 Calcium carbonate). Writerpress of, syn, face Mathylasticylate)
asic).	i in-isopropanolamine, dms., c.i., fr	r t .	Witch hazel bank, bis 1,35 -
6,	aid. E. Trimethylamina, snhyd., tanke, fi	rt.	400 Mesh, bos., c.j. works top 134.00 -
	25% soln., 190%	b54½ - %	high senectratio box works ton 117.00 -
50	basie. 40% soin., tanks, frt. equald., 100	b. 63% -	Disht, ceneral grade to 200 00
95	basis. Trimethyloipropane bgs c.l. t.f. divd.	b58%	1 320 mass 440 00 444 00
00	Trimeinyloipropane triscrylate.	ı.l.	57 400 mesh
00	dina., 1.o.b. works Tripentserythritol, lanks, frt. add., E.	P 4 40	Wormsaed of (see Chanopodum of, NF)
	Tripheny! phosphate, dme., t.f., (fet.	Wormwoodol, cas
05	E E	1d.	W
.65	Tris-(hydromethyl) nitromethene, so	iid.	
-	f.k. works Trisodium phosphate (see Sodium)	(oleschul, etariqeoric	
.12	Tung off, tanks, imp. New York	kilo 62.00 65	.00
	Tungstic acid 621/4%, dms., 1,7	50-	Xanthan gum, food 300-lib, days, 10 h
	: Turmenc, Alleppey 5%	.lb65	_ (nd anala anala)
ממרי	ייים מעדים חם		III., gracor, sarria basia fb. 4.64 _

		1 7	Turmeric, Aliappey over 8% ib	-
	2.75 -	1.	Turpentine, crude suifste tanks, l.o.b. Southeast works	.00
nina, drna 10 kilos wks kilo. 🗆 🙉	8.00 - 1.45 -		Sould result in the	خديدين <u>م</u>
ah bas	.75 - 0.00 -			
all, NF, red, ams	2.00 -	.		
NF	3.75 8.1		U	
usele	2.30 58 <i>.</i> 21 N.A	0	U	
n dioxide, anatase, bgs., 20-		ا	Ultramarine blue pigments, 550- 2,000	
on lots, frt. ald	.77 .7	4	blots, works	
in frt. alld	.78 -		Umber element, burnt, American, frt.	312 .1512
n dioxide, rutile, reg., bgs., 20- on lots, i.rt. alid lb.	.81 .8		raw American, dom., bga., f.c.l.,	
try enipments, 50 ton tols, try beels, frt. ald	.84 -		same basis	3½ .14% 0 –
raiking rutile malerial costs (c. per p			I kee ARSA N. Ind., DUK, DU-ION C.I.,	
	5.60 -		divd	
n tetrachioride, tech., bulk, c.l., lo.b. works	.30 .3	5	48% N. agricultural, bulk, clivd. Mid- wast ton 48% N. agricultural, bulk, divid. West ton 210.0	
Last culturiers C.L. serme Dasin ID.	.60 -	- 1	Uva-Ural leaves, bis	2 -
sponge, 98.3%, fiber drums, ess than 5,000 lbs. l.o.b.				
arke	4.85 - 2.45 -	. 1	W	
	- 80.08		V	
pohary scatate, 81% conc.,	7.48 -	- 1		
conharvi acid succinate, cryst.,				
cocherol dinakilo.	78.44 - 27.40 -		Ambiguitori mediani na	35 .85
cocharul acatata, USP 50-KIKO	18.00 18.0	50	fordan bos	45 -
dry powd., 50-kilo dm kilo	7.00		Vanedium oxytrichloride, 3,000 lb. cyle., works	40 -
isem, cns	7.80 5.0	00	Vanadam pentoxide, tech., gran., per lb. of V ₂ O ₈ , 550-lb. dms., works lb. 4.	10 4.94
Affanta, Gs., divdgal.	.70 -		fused or flake, per lb. V ₂ O ₆ , 550-	
Bayonne, N.J., dwdgal. Baytown, Tex., I.o.bgal.	.70 -	. 1	Vandyka brown, bags., I.J., frt. equald. b.	27% -
Chicago, fil. divid gal. Clairton, Pa., f.o.b gal.	.70 -		Java, tina	00 30.00
Deer Park, Tex., f.o.b gal.	.70 -	.	Varien, USP, dma., f.o.b works lb. 8.	25 - 75 5.00
Fi. Weyne, Ind., divd gei. Gulf Coaet, epot, barges gai.	.68	57	Versing Ag	.84 -
Houston, Tex., Gvo gas.	.70 - .70 -	: 1	Vetiveryi acetate, oma	.00
New Jersey Metro, divd . , . gel. Philedelphia, Ps., divd gel.	.70	- 1	Vetiver oil, Bourbon, dine lb. 19	.00 17.00
Providence, R.I., divd gal. a di-laccyanate (mbxed lacmers).	.70 -	-	Java ido 31	
80%, 2,4- and 20% 2,6- laomers,	101		Victoria blue toners, molybdeted, PMA	.20 9.30
jumbo lankcars, divd lb. enesulfonemide, powd., dms.,	1.01	-	tungstated, PIA, dms	.40 -
t.i., worksib.	3.55 3.10	- 1	Vinyl acetate monomer, tanke, avd. to. Vinyl chloride monomer, polymer	.36 -
ddine, tech., bulk	.72	.75	grade, tanks, f.o.b. worksib. Vinyl ethar, USP, anestheels, 75-cc.	.28 -
, same basis	.60	.64	bots., hospitals Dots.	.58 -
cl.,worka		.85	tanks, works	.81 - .81 -
q., tanke, same basisb. e, same basisb.	1.70 1.86		Vinyttoluena, bulk, f.o.b	.87 .73
knes, mixed, c-m-p, tech., liquid,	1.03	_		3.00 -
c.1.1.o.b. works lb.	.95	-	unite per gram, 10 kilo lots kilo 41	.00 –
nazole, d me., 1,000-lb. lote, f.o.b. Cincinnati, Ohio	2.90	-	Vitamin A, feed grade, 650,000 units	3.70 23.85
s besne, Angostura, prima,			Vitamin B. (see Thismine hydrochloride).	
1,000-lb.iols ib. phene, dms., c.l., Lf., worke b.	.38	Ξ.	Vitamin 6 ₁₂ (see Riboliavin and Y Vitamin B ₁₂ , cryst., non-sterils, USP	eastj.
centhgum, No. 1, ribbons, cns. fb. ed powder	38.00 40	1.00 5.00	(cyenocobalemin), viela, 50-	3.00 8.75
etin tanka, divd. Eb.	.75	-	Vitamin B ₁₂ .1% trituration of cryst. B ₁₂	3.00 8.75
tyl cfirata, t.l., drums, f.o.b., works	1.70	-	Vitamin B ₁₉₋ 1% trituration of cryst. B ₁₂ (cyanocobelamin USP) with dical- chum phosphate, 25-kilo dms. kfo. 10	0.75 12.75
tyl phosphate, tanka, works lb.	1.85	1.77	Vitamin B ₁₂ , 0.1% trituration of cryst.	
tylamine, dms., c.i., divdib.	1.39 1.33	-	B ₁₂ (cyanocobalamin USP) with mannitol, 25-kilo. dmskilo. 19	5.80 -
dras, c.l., f.o.b., works lb.	.94	_	Vitemin B ₁₂ , cobalamin concentrate NF	
P, 100-tb. dms., irt. equald ib.	.991/2	-		8.45 -
-Trichtorobenzene, pure, tanks, dividb.	.911/2	_	Vitamin B., 1% Vitamin B ₁₂ , USP, ab- sorbed on resin, 5-kilo dms., 500-	
1-Trichtoroethane, fanke, con-			grem lots, frt.elid. per gram activity 1	5.65 -
sumers, dvdb. 2-Trichloroethane, tanks, 1.o.b.	.401/2		Vitamin B ₁₂ , 1% cobalamin concentrate, NF, absorbed on resin, 5-kilo	
worksb.	.42 .38½	Ξ	dms., Irt. alid. per gram activity 1 Vitamin B ₁₂ , 1% cyenocobalamin in	5.40 -
nioroisocyanurio acid, dmsib.	1.25	-	gelatin, 2.6-kilo dma., irt.	5.40
nicrophenoxyacetic acid (see 2,4,5-) noine citrate, 65%, soin., non-rei.			Vitamin C (see Ascorbic acid).	5.40 -
dms., 1,500-lb. lots, divdb. resyl phosphate, tanks, f.o.b.	1.35	-	Vitamin O (see Cholecalciferol)	
workeb.	1.60	1.76	Witamin D ₂ (see Codiliver and Fishiiver cits). Vitamin E (see s-Tocopherol and Wheel ger	m oil).
ecyl alcohol, mixed isomers, tanks, divdb.	.57	_	Vitamin H (see Blotin). Violet methyl toner (see Methyl violet toner)	
thonolamine, 65%, tanks, clivd. E. b.	.45	.48		
9%, tanks, same basisb. thanolamine isuryi euliate, tanks,	.45	.48	111	
f.o.b. worksb. khylamina, dms., o.)., divdb.	.27¼ 1.33	.271/2	1AJ	
anke, same besisb.	1.20	-		
worksb.	1.82	_		
ithyl phosphate, tanks, divd lb.	1.15	-	Warfarin 0.5%, dms., ton lots, irt. eld.	
ethylene glycol, tanks, f.o.b. Gull ib. ethylene glycol dipelargonate, lanks	.47	-	New York or Chicago Ib.	.76 –
1.0 b. works	.2914	-	wheat germ oil, cold-preesed, gal. cold-processed	16.50 17.5 14.00 -
equald	.35		Wints precipitate, USP, powd., 1004b.	
euryeneteuramine tanks, irt. equatd.ib. -180-lohil trimeliitate. 1.0.b. works ib.	1.43 .51	1.45 .55	Whiting (see Calcium carbonate).	7.892 11.2
-Isobutylene, tanks, divd ib.	.45	-) Wintergreen Cil, Syn. (888 Methyl saticylate)). 1 .3 5 –
isopropanolamine, dms., c.i., frt.	.57%	-	Witch hazel bark, bis	1.75 -
methylamina, snhyd., tanke, frt.	FAIL	_	400 mesh, bgs., c.l. works ton 1 325 mesh, bgs., c.l. works ton 1	34.00 - 17.00 -
25% soin., lanks, irt. equald., 100%				84.00 -
40% sofn., tanks, frt. equald., 100%	631/2	-	plant general grade fon 2	00.00 -

Atlanta, On., dlvd. Beyonne, N.J., divd. Beyonne, N.J. to b. Bnytown, Tex., Lo.b. Chicago, Iii., divd. Cleirton, Ps. F1. Wayne, Ind., divd. Guif Coast, spot, barges. Houston, Tex., divd. New, Jersay Metro, divd. New Jerasy Metro, dwd. Xylens, petroleum, Ind. or nitratio Philadelphia, Pe., divd. Providence, R.I., divd. Providence, R.I., divd. gal. South Bend, Ind., divd. gal. m.Xylone, high purity. tenks, t.o.b. Toxss City, Tex... o-Xylene, tanks, works ib. p-Xylene, tanks, divd. ib. m-Xylenedlamine, dms., 1.i., (.o.b. 1.70 1.50 1.00

			Y	
an, bgeib.	,65	.85	Yare yare, 25-lb, cns	2.6t
	.45	-	charomyces, 1.1., t.o.b. works . Ib.	1.10
hloride, 3,000 fb.	5.40	-	Yerba, sante isaves, bis	26.50
tech., gran., per lb.	4.10	4.94	Ylang-ylang oil, extre gradelb.	23.93 19.09
per lb. V ₂ O ₅ , 550-	3.35	3.65	grade 2	15.90 13.04
s., I.J., frt. equald. b.	.27%	-	G1808 3	19.04
agascar b.	37.00			
	07 00	20.00		

	Zein, bgs., 2,000-lb. lotslb.	7.50
	Zinc ecetate, NF, dms ib.	1.00
	tech., driydreta, bgs., 11., works. Ib.	1.60
	Zinc borato, tech., 43% ZnO, 37%	
	B ₂ O ₃ , 50-lb. bgs., 20,000-lb. t.l.,	
	to h works	.55
	cryst., 37% ZnO, 49% 62O3, 250-b.	
	dms 20,000 lbs. tl. to b. wks. lb.	.89
	Zinc chlorida, USP, gran., dms kilo	9.79
	Zinc chloride, tech., Boin. 50%,	
	tanks, f.o.b. Cleveland,	
V2	Ohio 100 lbs.	20.20
	Concord, N.C 100 lbs.	20.20
	Freeport, Tex 100 lbs.	20.20
	1 Old Bridge, N.J 100 lbs.	20.20
	85 degree, eame basis Clevaland,	CT 50
	Onlo 100 lbs.	27.90 27.90
	Concord, N.C 100 lbs.	27.90
	Old Bridge, N.J 100 fbs.	\$1.6n
	70 degree, eame basis Cleveland.	29.70
	Ohlo	29.70
	Concord, NC 100 lbs.	20.70

31.**3**6

2)4

Ohlo	29.70
Onio	29.70
Concord, NC 100 lbs.	
Old Bridge, NJ 100 lbs.	29.70
72 degree, eame basis Cloveland,	
Orlo 100 lbs.	33.20
Concord, NC 100 lbs.	33.20
Old Bridge, NJ 100 fos.	33.20
The elements have died	t.12
Zinc chromate, bgs., divd	1.65
Zinc cyanido, dma., c.f	1.00
Zinc dus) pigmen) type 1 & 2, dme., c.l.,	.58
1 0 h piant	.08
Zinc othylarodiaming tetracetic acro.	
8 4% Zr., ommonia sali som.,	
1.c., t. 1. f.o.b. works lb.	.56
8% Zn., emmonia soli soln., 1.c., t.t.	
f.o.b. works	AB
The Market New come diese 11	
Zinc fluoborato, fig. conc., dms., t.i.,	.68
works, Irt. equeld lb.	.44
Zinc motal, high grado, divdib.	
7 inc nachthanold, lig. 8% 4n. Cilia.	.95
divid	.80
The street sach flake 200th day	.34

Zinc motal, righ grade, dive.		
Zinc nephthenale, liq. 8% Zn. dms.	.95	3
Zinc pitzete tech flako 300-lb. dms D.	.34	**
Zinc oxide photo confluence, bys., db.	.47%	160
Zinc oxide, USP 60-tb. bas., c.l., fri.	.481/2	Ţ
2inc oxide pigment, American process.	.40	ñ
Zinc oxida pigment, Franch process	.41	9
250.h dms. 11. it. aldb.	1.82	: j
dma. t.o.b. works	8.50 14.50	19
Industrial grade	.45	- 1
Z(nc ellicolluor)de, dma., o.i., (.i.,	.17	THE STATE OF
Zinc stearate, USP, bulk, tlb.		- 1

dma, frt. alld	
Zinc ellicofhioride, dms., O.L., C.I.,	
	3
Zinc stearate, USP, bulk, tl b.	
Zino sulfate, gran., morohydrate, in- dust. grade 36% Zn., bge., o.L.	
	26.
ASSISTANT OF THE PROPERTY OF THE PARTY OF TH	22
eamenasis	24
The collect face 7100 chromatel.	
Zino-emmonium chloride, bgs., ol., works.	
Zinc undecylenate, dms., works b.	4
	1.
	166
	100
	225
CL, works	
Zirconium acetate soin., 25% ZrO ₂ , dris., c.l., 30,000 lbs. mkn., works. Ib.	
22% ZrOs, earne basis	, ,
Zienanium muricia nowd., siectronic	٠.,

X		Zirconam nyanos, works 8. Zirconam oxide, powd., comi., dms., 2,000 lbs. min. 8. electronic, same basis (naularing, stabilized, 325°F same 3.51)
Xanthan gum, food 300-tb. dms., 1.o. works. ind., grade, same basis	 8.20	Insulating, stableted, 325° rams, sale lautating, unstableted, 325° rams, sale basis, loss, sale basis, loss, stabilized, 30°, same basis, loss, stabilized, 30°, same basis, loss, stabilized, 30°, same basis, loss, stabilized, sale, stabilized, sale, stabilized, sale, stabilized, sale, stabilized, sale, stabilized, sale, stabilized, sale, stabilized, sale, stabilized, sale, stabilized, sale, s
antique desgri	 	

US imports of chemicals and related meterials are reported in this section by CPI meterial. Listings include consignee where possible, container, net weight, name of vessel (in parenthesis), port of origin end dete of shipment's arrival in New York or the Port of Newerk.

US chemicel imports/exports are tabuleted monthly in the merket reports.

ACETYL CHILORICE Lescheco 284 dms (134368 fbs))Siutigari Express) Aniwerp, 6/16. ACETYL PARA AMNOPHENOL Rhone Poulanc 360 bgs ACETYL PARIA AMINOPHENOL Rhone Poulanc 360 bgs (42689 ibs) (Alteritic Service) LeHavre, 8/15.

ACETYLENE BLACK F B Vandegrift 734 bgs (25326 ibs) (Alsxandre) Rotterdam, 9/20.

8ORIC ACIO Enichem Americas 388 dma (142304 ibs) (888 Land Leeder) Algeotras, 8/17.

ACRYLIC RUBBER Nissho Iwsi American 80 cm (3660

ACRYLIC HUBBER Nission was american 80 cm (3660 ibs) (Klao Maru) Kobe, 8/13.

ACTIVATEO CARBON Oegusss 1800 bgs (71608 ibs) (Stuttgert Express) Bremerizaven, 9/16.

AGAR AOAR Alkransport 20 dms (2425 ibs) (American Georgia) Rotterdem, 9/12.

American Stipg 200 bgs (11552 ibs) (CCNI Aueiral) Valoratelso 3/16.

Valparaiso, 9/18. Harold Papper 40 dms (4850 lbs) (Ever Oulde) Tokyo. 9/16. ALIMINA POWDER Beikowski in 177 cm (9336 lbs) (Ever Shiris) Fos. 9/21. ALUMINIUM OXIDE Trelibscher S6 pli (119520 lbe) (Oert

British Bremerheven, 8/16.
ALUMNUM OXICE Atles intermedal Transport 660 bgs (38528 lbs) (Ming Universe) Yokohame, 9/11. ALUMINUM PASTE Oardher Ind 180 dms (45635 lbs) (Altantic Compass) Oothenburg, 6/15. U S Bronza Powder 70 dme (45150 lbs) (Alexandre)

Felixstowe, 9/20.
AMINOBROMO HYDROXY ANTHRAOUINONE Bern Stog 82 dms (8266 ibs) (Ming Universe) Kobs, 9/11 AMINOMETHOXY BENZANILICE 20 dms (2469 ibs (Ming Universe) Koba, 9/11.
AMMONIUM BIFLUORIOE Osniel F Young 724 bge

(36998 lbs) (Zim Osnove) Osaka, 8/7. 128 dms (40836 lbs) (Amarican Aquarius) Bremer AMMONIUM BIFLUORIOE Petilbone World Trada B60 bgs (45581 lbs) (Ever Growth) Hamburg, 9/15. AMMONIUM 8/FLUORIOE TECHN Kall Chemie 800 bgs

(48473 lbs) (Ever Orowth) Hamburg, 9/15.
AMMONIUM PARATUNOSTATE Sasaoon Maisis & Chanicals 340 dms (38581 lbs) (Yu Hai Shenghai, AMMONIUM SULFAMATE A & S 770 bgs (39285 lbs) (YI Hel Kobe, 9/18. AMMONIUM SULFAMATE & SULFAMIC ACIO Thorson

Chemical 900 bgs (46520 lbs) (American Nabrasko Kabe, 9/7. AMMONIUM TETRAFLUOROBORATE 30 bgs (3373 lbs) ANTIMONY METAL Minemet Metals 340 cs (80203 lbs)
(Boogebile) Hong Kong, 9/13.

ANTIMONY TRIOXIDE Chi Met Metals 2040 bgs (113764

http://documents.com/documents/figures

Rotlerdam, 9/11. ARCTON 11 1 tok (39573 lbs) (Stuttgert Express) ARGION 11 TITE (1920)
Oreenock, 9/18.
848/JUM CARRONATE Kell Chomia 20 pil (40156 lbs)
(Dart Britain) Bramarhaven, 8/18.
BARIUM HYOROXICE MONOHYORATE Kall Chomia 2400 bgs (13583 lbs) (Argonauf) Leghorn, 9/16.
BARIUM NITRATE Cometale 1320 dms (104236 lbs) (Yu Hat Hainkang 8/18.

He) Hainkang, 9/18.

BARIUM SULPHATE PRECIPITATEO E 2 Em 2520 bga

BARIUM SULPHATE PRECIPITATE U E 2 EM 2580 591
113890 b5) (Italica) Laghorn, 8/18.
BEIZIOINE OISULFONIC ACIO Bemo Shpg 10 dms (3286 ibs) (MingUniverse) Kobo, 9/11.
BENZOIC ACIO Amerpol Intl 800 bgs (417SS ibs) (Wiedys8ENZYL ALCOHOL ASPARTAME COF Chinio 1 Ink
44080 ibs/1/Sirius/LoHavrs, 9/13.

BENZYL ALCOHOL ASPARTAME COF Chinto 1 Ink (4086 bis) (Sinus) Lehavra, 8/13.

BENZYL ALCOHOL PHOTO ORADE COF Chimid 1 Ink (39462 bis) (Sinus) Lehavra, 8/13.

BENZYL CYANIOE Inter Marilims Fiving 1 Ink (41996 lbs) (flocken) Rotterdem, 9/18.

BENZYL SALICYLATE Rhone Poulsno 124 dms (88208 bis) (firmwhale) Marseills, 9/12.

BETA HYDROXYNAPHTHOIC ACIO Leschaco 159 dms (33834 lbs) (Buttingert Exprass) Rotterdem, 9/18.

Universe) Koba, 8/11.

400dms (41589 bis) (Ming 1,000 dms (41589 bis) (Ming 1,000 dms (41589 bis) (Ming 1,000 dms (41589 bis) bis)

Universa) Koba, 8/11.
400drs (41599 lbs) (Ming Universa) Koba, 9/11.
400drs (41599 lbs) (Ming Universa) Koba, 9/11.
600drs (41599 lbs) (Ming Universa) Koba, 9/11.
600drs (41599 lbs) (Ming Universa) Koba, 9/11.
600drs (41599 lbs) (Ming Universa) (41599 lbs)

CADMIUM OXIOE King Shpg 50 dme (5891 lbs) (Studigart Express) Greenock, 9/19.
420 dms (46167 lbs) (Alexandra) Antwerp, 8/20.
CADMIUM PIOMENT VGL 85 dms (5247 lbs) (Atlentic Compage) I kernock 8/15 Compass) Liverpool, 8/15.
CALCIUM HYPOCHLORITE Sinochem 310 dms (34172 Da) (Yu He) Strangtel, 8/18.
CAMPHOR POWDER SYNTHETIC 200 ca (11805 lbs (American Kentucky) Shanghal, 8/15.

CAMPHOR POWOER SYNTHETIC USP Irving R Boody
1000 ctn (58526 bs) (Yu He) Shanghal, 8/18.

CARNAUGA WAX FLAKES Robert B Baidini 800 bg&
CARRAGEENAN Meer 250 dms (29211 lbs) (halica) Vigo,
8/19.

Byle. Shut. (18229 lbs) (talics) Vigo.

CASEIN Norseisnd Foods 1580 bgs (85980 lbs) (Sea Land Express) Bremertaven, 9/11.
1580 bgs (85980 lbs) (Bea Land Developer) Bremer-haven, 9/16.
CAUSTIC POTASH FLAKES 800 bgs (45732 lbs) (Bak-celose) Rotterdam, 8/20.
CEDARWOOD OIL 180 dma (71808 lbs) (American Kentacky) Hong Kong, 9/15.

W R Kasting 112 dms (50234 lbs) (American Kentucky)

merheven, 9/12.
CHROMIC ACIO FLAKES White Cross Laboratories 350

Rotterdam, 9/20.
Omnilirana 390 bgs (40015 lbs) (Rijeka Express) Koper

Jekarta, 6/11. 80 dms (39004 lbs) (Evar Gulda) Singapore, 9/16. ZLOVES Gel Spice 414 bgs (45122 lbs) (Finnwhsia) Mar

GLOVES del apice 4 14 bgs (40 1 € 105) (Finiterials) mar-salle, 9/12. COBALT Fatconbridge 72 dms (40715 lbs) (Saa Land Exprass) Rottardam, 8/11. Unimodal 75 dms (14504 lbs) (Oart British) Fallxs towe.

COO LIVER Oil Alltransport 60 dms (37037 lbs) (Sinus Rotlardsm, 8/13.
CREAM OF TARTAR 300 bgs (33400 lbs) (itslica)

CUMIN SEEOS Militzar & Muench 1000 bgs (121253 lbs)

6/21.

OAP MONOMER CIALLYL PHTHALATE MO Alba Fwde

dem. 9/15. CEXTROSE ORAL ANHYCROUS Roquella 398 bgs

20 dms (6448 lba) (Ming Universe) Kobe, 6/11.

DIANISIONE CHYOROCHLORICE Nagase America 190

DIMETHYL BEN2YL CARBINOL 6 dms (2467 lbs) (Kiso

Express) Marsellia, 8/15.
OIMETHYL MALONATE OMMKay Fries 78bri (37782lbs)

Antworp, 6/16.

XPHENYL OXIOE Berje inii 36 dms (17170 lbs) (American Kentucky) Kobs, 9/16.
DIPHENYLAMINE 1 tok (38226 lbe) (Stuttgart Express) Oraenock, 9/18.

EPSOM SALTS Oualchem 3200 bge (322524 lbs) (Ever Orowth) Hamburg, 9/15. ERYTHROMYCIN Apotex 20 otn (529 lbs) (Yu Ha) Hong

Kong, 9/16.

ETHYL ALCOHOL New York Cosmetics 4 pit (5871 lbs)
(Dart Britain) Felixatowe, 9/16.

ETHYLENE OlaMine 1 bks (107033 lbs) (Stoll Integrity)
Rotterdam, 8/11.

EUCALYPTOL Klockner Chemical 25 dms (11243 lbs)

tucky) Hong Kong, 9/18.
Pan American Confeiner 10 dms (4718 lbs) (American Aquarkia) Rotterdam, 8/17.
FERROUS FUMARATE American Shpg 298 dms (35288

OELATIN Oavis Geletine 880 bgs (36078 lbs) (Arturo OELATIN Gavis Geletine 880 bgs (39078 lbs) (Arturo Gomez J) Cartagena, 9/15.

Pater Cooper 1010 bgs (46305 lbs) (Finnwhale) Marsellie, 9/12.

GINOER Emax Ind Trdg 1100 cs (33961 lbs) (American Astronau) Sanice, 9/11.

Fruits & Vegetables 884 otn (26667 lbs) (American Astronau) Sanice, 8/11.

GINOER O1. 20 dms (2535 lbs) (American Kentucky) Hong Kong, 9/15.

OLUCONATE Bertex Laboratories 182 dms (11684 lbs) (514thorst Express) Hemburg, 9/15.

OLUCONATE Berlex Laboratories 182 dms (1984 lbs)
(Stuttgart Express) Hamburg, 8/16.
GLYCERIN 1 bks (1124138 lbs) (Bow Ses) Kobe, 9/17.
Menuel Del Vafe 1 tnk (45800 lbs) (Sea Land Express)
Rotterdem, 9/11.
86 dme (38286 lbs) (Ove 8kou) Rio O Janeiro, 9/21.
Thompson Hayward Chemical 800 bgs (33731 lbs) (Sea Land Oeveloper) Rotterdam, 9/15.

Paper and the property of the property of the paper of th

DUAIFENESIN Byron Chamical 200 dm s (25221 lbs) (Ever

OUAR OUM Premean Ours 600 bgs (4056S lbs) (Rouan) Flixstowe, 6/18* OUM ROSIN 180 dms (66184 lbs) (Rouen) Rotterdem,

B/18.

OUM TRAOACANTH Tic Ourns 52 bgs (10392 ibsj (Wtadysisw Sikorsk) Bremarheven, 9/18.

6 cs (2185 lbs) (Wisdysisw Sikorsk) Bremerhsvan, 9/

16. HEPTANOIC ACIO I bks (1101001 lbs) (Bhoun Oalaxy) L

Avers, 9/21. HEXANE 1 bks (2205336 lbs) (Shoun Leo) Thessalonik!

6/11.

HIOE GLUE Trensetiantic By Producte 400 bgs (38850 lbs) (American Astronau) Rio Ord Oo S, 9/11.

HIOE GLUE INOUSTRIAL OELATINE Tsub & Carmel 720 bgs (76663 lbs) (Savannah) Santos, 8/13.

HYOROFLUORIC ACIOTrane World Bhpg 72 dms (38889 lbs) (Ming Universa) Koba. 8/11.

ibs) (Ming Universe) Koba, 8/11. 4YOROOUNONE PHOTO ORACE Mitsul 720 bgs

(41023 lbs) (Ocean Legend) Kobe, 6/11.
Milsul Petrochamical Ind 358 dms (85840 lbs) (Ming

Universe) Kobs, 9/11.
HYOROXYBENZOIC ACIO Jansi Inti Fwdre 800 bgs

Universal Transconlinentsi 60 dms (5 165 lbs) (American

Universal Transconlinental 60 dms (5165 lbs) (American Kantucky) Kobs, 8/15.
40 dme (2583 lbs) (American Kentucky) Kobs, 9/15.
INSUUN Allantic Conisiner Lina 17 coi (26860 lbs) (Stuttgart Express) Bramarhaven, 6/16.
ISOBORNEOL Aroms Rasources 22 dms (2425 lbs) (Anterican Kentucky) Khor Fakkan, 9/15.
ISOPHORONE OLAMINE Noudex 80 dms (35536 lbs) (Rouan) Rotterdam, 8/16.
ISOPHTHALIC ACIO Sisas 700 bgs (39638 lbs) (Ever Shina) Laghorn, 9/21.
ISOPHYTOL 1 link (42216 lbs) (Allantic Song) Rotterdam, 8/21.

B/21.

J ACIO Leydan Customs Expaditers 256 dms (32421 lbs) (Amaricen Kentucky) Kobe, 9/15.

JUNIPER BERRY OIL Pan Amaricen Container 4 dms (869 lbs) (Amarican Aquanius) Rotterdam, 8/17.

CARVONE American Shpg 30 dms (13225 lbs) (Savan

nsh) Santos, 9/13. EPHEORINE Canes Chamicals 200 cin (12787 lbs)

[American Kentuckyi Hong Kong, 9/15. L EPHEORINE HCL Msx Oruanijut 40 dani (2937 lbs) [Alleniic Servics] Rottardsm, 9/15. L LYSINE MONOHCL M Ourvoy & Ban y 40 dms (2557 lbs)

(American Nebraska) Hong Kong, 6/17.
LACTOSE NF HYOROUSE FOOOSTUFFS Edward

LITTLEFORD FKM5000, FKM2000, FKM600D & Lab. SS BAKER PERKINB & DAY Sigma 20, 50, 100 B 150 Gal. GAY, MARICIN & LOWE BS Spiral, \$10 100 cu. ft.

AMF "Glen" 340, 160 & 120 Ct. Vertice! FALCON M500A 7 cu. it. 66 - serilary HOBART V1401 (140qt.) 80 & 60 qt. Vertical

HOCKM&YER BIG "H" 80 & 80 Gal. 88 Pony OAKES 10M & 14MStury DAY, B.P. & ABBE 68 Jacketed Lab; 1 C1. to & Gal.

LEE & GROEN SS Cooking & Mixing Keitles 10 to 200 Gel. CREPACO & CHERRY BURRELL SS Jacketed Processors

PITZPATRICK DASOS & DS Comminuters
PTZPATRICK GC Gullocutters, J Homoloid Mills. CS-31

STRONG SCOTT 55 Turbulzer
URSCHEL MG1700 & MG1500 Commitrols
STOKES "Tornado Ma"
QUADRO Comomil
PALLMAN, RAYMOND, SCHUTZ-O'NEILL, MOREHOUSE,

BRAMLEY 25 & 50 Gal. SS Double Arm Duplex

DAY MBX350 "Nauta" 3E ou. 1t. 89

GMOLER, 1, 2 & 3 Tube Votstore

CHARLOTTE & TRIHOMO COUNT MAN GIFFORD WOOD & EFPENBACH HOMOMIXER &

MKRO "Bantam," 19H, 2TH, 6TH, 6 4TH BB PITZPATRICK DASOS & DS Committuders

100 to 1000 Gal.

PULVERIZERS

Prebreaker & L. Malaxator

RIETZ RP12 Disintegrator STRONG SCOTT 65 Turbulizer

RIETZ RE6K & RE12K 88 Extructors

BAUERMEISTER & ALPINE Grinders

DAY & LENMANN B & E ROU Miles PREMIER E HP Variable Speed Die

PATTERBON XELLEY Lab., 5 & 10 cu. tt. & 12" 85 Zig Zag

Mondall 720 bgs (40604 lbs) (Haida) Brame 6/21.

Oulda) Kaelung, 9/16.
OUAR OUM Premoan Ourna

Kobe, 6/15.

MIXERS

MUNTOK WHITE PEPPER A Kazeni 120 bga (22046 iba)

(Saudi Tabuk) Singapore, 9/24. Atlanta Textile 120 bgs (22676 ibe) (Saudi Tebuki) Sin-

gspore, 9/24.

Buchanan Trdg 120 bgs (22575 lbs) (Baudi Tebuki) Singapore, 6/24.

Centrel Indonesian Trdg 540 bgs (100530 bs) (Saudi Tabuk) Singapore, 9/24.

Gel Spice 120 bge (22575 bs) (Boogabilla) Singapore. 9/13.

3/13. 800 bgs (111286 lbs) (Saudi Tebuk) Singapore, 9/24. XHL Flavora 160 bge (33089 lbe) (Saudi Tabuk) Singa-

pore, 9/24.
Louis Furth 160 bge (33069 lbs) (Saudi Tabuk) Singe-pore, 6/24.
Ludwig Mueller 160 bga (33069 lbs) (Saudi Tebuk) Sin-

gapora, 9/24 Schill Food Producte 166 bge (33066 bs) (Saudi Tabuk) Singepore, 9/24.

ORTHO CIANIBIDINE CIHYOROCHLORID Bemo Shipg

ORTHO CIANISIDINE CIHYOROCHLORID Bemo Sripg
180 dms (31743 lba) (Ming Unviersa) Kobs, 6/11.
ORTHO NITROCHLOROBENZENE Prochimie Inti 2 ink
(83334 lbs) (Altentic Service) LeHavre, 6/15.
1125 bgs (101441 lbs) (Amarican Kentucky) Knro Fekksn, 8/16.
OXALIC ACIO Minaral B Chemical Tradare 700 bgs
(35210 lbs) (Yu He) Shsnghal, 9/18.
Triumph Commoditias 700 bgs (39276 lbs) (Yu He)
Kobe, 9/18.
OXYPHENE TOLLIENE MIXTURE Attransport 32 des

OXYPHENE TOLUENE MIXTURE Altransport 32 dma (15309 lbs) (Altartic Song) LeHavra, 9/21. PHYOROXYBENZOIC ACID Kanametsu Gosho 1600

hyproxybenzoic Acid Kansmetsu Gosho 1600 bgs (60953 bs) (Ming Universe) Kobe, 8/11. NITROBEN201C AC10 Nobel Chamicais 720 bgs (41482 bs) (Amarican Georgiej Bremarhaven, 9/12. 128 dms (43248 bs) (Amarican Aquarius) Bremar-

hsvan, 6/17. PARA CHLORONITROBENZENE 2 Ink (16516 lbs) (Soa

Land Express) Aniwerp. 9/11.
PARA TERTIARY BUTYL SEN2ALOEHYOE 80 dme

PARA TERTIARY BUTYL SEN2ALOEHYOE 80 dme (39793 lbs) (Ming Universe) Kealung, 9/11.

PARACETAMOL Alles Intermodal Trensport 500 dme (25864 lbs) (Vu He) Hong Kong, 9/16.

PARAFFIN PETROLEUM WAX Astor Wax 16 pkg (40674 lbs) (Sea Lend Express) Rollerdam, 9/11.

18 pii (40557 lbs) (Ever Orowih) Falixatowe, 9/16.

PARAFFIN WAX Oana Mig 9 bxs (337 lbs) (Stutigart Express) Hamburg, 9/16.

Frank B Ross 350 bgs (36967 lbs) (Yu He) Shanghal, 6/18.

frving R Boody 400 bgs (44445 lbs) (Stuttgart Express)

ARAFORMADEHYOE POWOER T R America Chami-cala 720 bgs (41082 lbs) (Sas Land Leader) Alge-

Cires, 8/17.
22 pil (49714 lbs) (Sea Lond Lasder) Algadres, 9/17.
PENTAER YTHRITOL Klocknar Chomical 700 bgs (38932 lbe) (CCNI Austret) Valparaiso, 9/18.
PEPPERMINT OIL F X Coughin 18 dms (7857 lbs) (Oart Britain) Felix stowo, 9/16.
PERFLUORINATEO FLUIO HARMLESS Montediaon 26 mix 11850 lbs) (Argoriant) Genos, 0/18.

mix (1650 bs) (Argonaut) Ganoa, 0/16 PERFLUOROPOLYETHER FOMBLIN HARML Monia-

dison 84 cs (3302 tbst (Argonaut) Ganos. 8/18
PHENOXY ACETIC AC10 Bristol Myars 792 bge (45939 lbs) (Wadysisw Sikorsk) Bramerhaven, 8/18.

MATTEER 34B Hispeed Auger COZZOL! LE8408 Piston Automatic SS PNEUMATIC 30, 24, 18 & B Head Rotary SS MFM, HORIX & KIEPER 30, 24, 18, 12 & B Head Rotary BLGIN & HOPE 2, 4 & E Piston

MATERR 31A, 33A & 37 A Auger ARENCO GAB, KALIX & COTUPLAB Tube FILAMATIC DAB, AB4

NALBACH High Speed Power Filing Line

WORLD SUPER CM Compack 7 & 14
DENNISON, LABELAIRE, FASSON, NEW JERSEY,
STANDARD XNAPP BURT & MRM

MISCELLANEOUS PACK AGING

BARTELT IN/ PICKNOW DOBOY, SCANDIA, HUSSON SHARP, WRAP KING, ROTO WRAP & CIRCLE

Checkweighers U.S. BOTTLERB Senitor, McBRADY, PNEUMACLEAN &

STANDARD METAL J1800 AIDLIN, MAS, MEYER & IELAND Unacramblers WELDOTRON, MAHAPPERY & SENTINEL Shrink Pack-

PAGLOCKER, ABC & ELLIOTT Case Sealers

HASSIA, XLOCKNER & WRAP AD & Strip Packagers HAYSSEN "Ultime," PACKAG & TRIANGLE FF8 JOHES, BY AMS, CECO & BUPERFOR CATORIOS FORE, ILLIMATRONIC & METRAMATIC HIGH Spec

CAPPERS

CAPPA CRF, C4F, C2F & SIF

PHEUMATIC SCALE 4 & 8 Head Pheumacapper
RESINA U40, U41, B30, 820, LC, F4 & 8A

PRAISTOPPER, WEST, PMC & XINSLEY

CANCO, CONTINENTAL & ANGELUA CAR Sear

RESINA FW Rectanguist Spice Riment Applicate

mQ2 & ZANA91Cspaule Filler

PERRY Accom EURSA F3 & BOCK FEERS

Hong Kong, 8/15.
CHLORIOE POWOERSTORE OELIUS Chlorida Bystems
12638 pcs (20329 lbs) (Zim Oenovs) Hong Kong.

(34304 lbs) (Stuttgarl Express) Antwarp, 8/18.
HYOROXYLAMINE SULPHATE Virginia Chemicels 661
bgs (36561 lbs) (Haida) Rottardsm, 6/21.
HYTREL POLYESTER ELASTOMER Sardo & Horgan
Distr 1480 bgs (124864 lbs) (Evar Orowth) Antwerp. 12636 pcs (20329 lbs) (ZIm Oenovs) Hong Kong. 9/7.
CHLOROSUCCINIMIOE Rhone Poulenc 25 dms (5560 lbs) (Finnwhsia) Marsedle, 6/12.
CHLOROTHEOPHYLINE HARMLESS American Import Sarvice 50 dms (5561 lbs) (Rouen) Rollardam, 6/16.
CHLORPHENIRAMINE MALEATE Oyma Laboratories 20 dms (1235 lbs) (Regins Maerak) Tokyo, 6/11.
CHLORPROMAZINE HARMLESS M G Transport Warehouse 16 dme (1023 lbs) (American Oeorgla) Bremerheven, 9/12. Distr 1480 bgs (124864 lbs) (Evar Orowth) Antwerp. 9/15.

IMINOCIACETIC ACIO Albs Fwdg 64 dms (12037 lbs) (Ocean Lagend) Yokohama, 8/11.

INOOLE REFINEO Osaksgodo America 14 dma (1759 lba) (Ragins Maersk) Tokyo. 8/11.

INOSITOL Greymor Chemical 40 dms (2425 lbs) (Siriua) Bremen, 8/13.

Karl Schrott 80 dms (5185 lbs) (American Kentucky) Kobe. 8/15.

dms (41435 lbs) (Rijaks Exprass) Genos, 9/15. CITRIC ACIO Lidocham 660 bge (42637 lbs) (Bskksfoss

CLOVE LEAF OIL 60 dms (18000 lbs) (Ming University

Bercelons, 6/19. Norton Lilly 250 bgs (27668 lba) (Tuisidas) Leghorn

(Stutigart Express) Hamburg, 6/15.

O ALPHA TOCOPHEROL Elsal 16 dms (8135 lbs) (Riso Maru) Tokyo, 9/13.

O LIMONENE ISO dms (66667 lbs) (Ova Skou) Sanios, 8/21.

BO dms (36330 lbs) (Kiso Maru) Koba, 9/13 CEXTRINE 1600 bgs (69086 lbs) (Ever Growth) Rotter

(44354 lbs) (Atlantic Service) LeHavre, 8/18.

CIAMINOCIPHENYLAMINE SULFONIC AC Berrio Shpg

dms (31369 lbs) (Ming Universa Kobs. 9/11.
OIBASIC LEADPHOSPHITE Monson Chemicals 896 mix (8.0507 lbs) (Ever Orowin) Rotterdam, 9/18.
OIBROMOMETHANE Ameribrom 134 dms (70172 lbs) (Argonsut) Halla, 9/16.
OIBROMOSUCCINIC ACIO Votalner Consolidation Servi

7 pkg(7383 lbs) (Stutigert Express) Oreenock, 9/16.

CIETHYLCARBAMA2 INE CITRATE POWOE Max Orush-hut 40 dms (4780 lbs) (Atlantic Song) Rotterdsm,

Meru) Kobe, 6/13. CIMETH YL OISULFICE OMOS 3 con (127655 lbs) (Rijeks

(Windyslaw Sikorek) Rotterdam, 6/16.

OIMETH YL SUCCINYL SUCCINATE American Bhpg 360 dms (42657 lbs) (Sirius) Bramen, 9/13. OIMETHYLANIUNE 1 Ink (36683 lbs) (Stuttgart Express)

DITHIOCYANATE METHANE Albright & Wilson 252 kgs (28689 lbs) (Bes Lend Oevsloper) Rotterdam, 9/16.

(Copispo) Velparaiso, 9/18. EUCALYPTUB OIL 56 dms (25082 lbs) (American Ken-

ibs) (Sirius) Bremen, Q/13.

FLAVOMYCN CONCENTRATE MEDICATE 402 bgs (22688 ibs) (Wiadyslaw Sikorek) Bremerhaven, 9/19.

TABLET DEPARTMENT STOKES BS-2 RO3, RI, R & T Presset
MANESTY Belepress, CSRY, BB3A, 883, & 35T Pressee
STOKES & EKERMAN 30", 38", 42" & 80" 88 Coating PELUGRINI T600 S8 Coating Para MERILL 88-14 Tablet Counter

New arrivals daily

STANDARD EQUIPMENT

PAGLOCKER, ABC & ELLIOTT CASE SEALER

LISCE TANIES USERIOCES SINCE

8TAR, NIAGARA, MERCULES & REPUBLIC 93 FILORE
SWECO, GREAT WESTERN, ROSS, BAUERMEISTER,
ALLISCHALMERS & ROTEX SINCE
TEKNIKA, &HARPLES & INTERNATIONAL CONTRIBUTES
PITZPATRICK PA 150 88 FLIC Bed Cryer
WALKESHA, MOJONNIER & CP 88 PUMPS New York (212) 585-0200 Chicago (312) 376-5400

STANDARD

Modern, Rebuilt Machinery CHICAGO PLANT

Huge Savings! In Stock! Immediate Delivery!

Wanted! surplus Machinery Best Cash Offers

October 20, 1986 CHEMICAL MARKETING REPORTER.

OVER 15,000 PIECES OF PROCESS EQUIPMENT IN STOCK...CALL TODAY!

LATEST ADDITIONS SOUTHWESTERN LIQUIDATION vessels_pressure_3+666

GAL. 14,000 13,000 11,000 7,000 6,400	PSI 30 60 30 30 50	GAL. 5,800 5,600 3,400 3,200 900	PSI 30 69 30 103 352	

FROM 50 TO 1,000 GAL TANKS-31658

36,000, 18,500, 13,500 (2), 12,000, & 6,600 GAL. MANY FROM 100 TO 5,000 GAL. Heat exchangers—31688 3,560, 2,480, 853, 617, 614, 471, 350, 182 SQ. Ff. Heat exchangens-titamen 1,470, 1,140 SQ. FY. 440/30 PSI HEACTGRS-316SS

5,100 GAL. 350 PSI AGIT., 3,170 GAL. 359 PSI AGIT. (4) MISCELLAMEOUS

CENTRIFUGAL PLIMPS - 5 TO 100 HP 316SS (50) DEATER-15MM BRUTHER THERMAL PRODUCTS GAS FIRED SKID MINID, (2) COMPRESSORS -1,240 CFM @ 110 PSI 250 HP (2) 220 CFM @ 215 PSI 150 HP (2)

AIR FIN COOLERS TO 80,440 SW, FT. (6) ALUMINUM BINS & SILOS TO 3,500 CU.FT. COLUMNS - 3165S-132"X110 X43, 90"X35"X10 TRAY 16"X33" PACKED 30 PSI (2)

> JUST A SAMPLE CALL FOR DETAILS!

A DELIVER OF THE PROPERTY OF T

Centrifuges

48 x30 Sharpita 516 mail T1600 (3) 48 x30 Telbinat that, C Autemat c (3) 48" (21", 31°SS, Automatic, Vi/plan PUSHER TYPE But Escher Wyss, 31655, tidl. 0500, 20", UNUSEN Delinyol, 25", 2-Stagen, 31655 DIBC/BOWL College, 17dl, DRDX, 30a, SS, week, & Mot. BA-01 SS Vice phath 304 SS Mot. SAMN-5036 Delayst, EPIX-213, 316 SS (2)

SOLID BOWLS Sharp'es, 641: P1860, P3000, P3000, P3400, (2), SS Ess G x60: 35 x77; 37 x50; 24 x33 ; 18 x42; 16: 63 12 x 30" SS

VACUUM DRYERS

BASKET

325 cu .ft. Abba, 304 SS dbl. cone 290 cu. ft. 316 SS Rot. Vac. Dryer Systems (3) 200 cu .ft. 31655, 6'6"x11'6", rolary 164 cu .ft. Paterson "Conaform," 31658 Dial. cone 150 cu. ft. SS 304 SS Twin Shell 150 cu .lt. SS, & 150 cu.ft. Nickel clad 125 cu .ft. SS & CS, 4'x14', 105/90/150 psi 125 & 83 cu. ft. Bullovak SS Rotary 60 cu .ft. Paterson Kelly, SS, abl. cono 40, & 15 cu.lt. Stokes, SS rotary

Corn Syrup/Starch Plant LIQUIDATION

200,000 lbs/Hfi @ 300 pel packego, bolior
150,000 lbs/Hfi @ 700 pal peckego botter
50,000 lbs/Hfi @ 750 pel peckego botter
6'x50' 304 SS rot, hot air dryor
5'x30' CS rotory hot air dryer
(2) 8'x61' Rennsnburg 301 SS flot, Dryers complete (3) 5'x 25''
4'x31' L, 72 tube Androeon SS rot, st. dryor
24,000 aq. ft. triple effect ovap. Titan tubae
600 aq. ft. U.S. Autojot PR/LF tiller cellcote ind (3)
500 aq. ft. U.S. Autojot PR/LF tiller cellcote ind (3)
500 aq. ft. Horculee 318 ELC pr/lf filter (4)
12'x15' Elmco belt CS rot, rac, filter (2)
7'6"x16' Elmco 318 SS procoat filtor (2)
1000 aq. it. Haot, C HT. Exchanger 150/75 UNUSED
Nesh Vac. Pumps Mdl. CL 3001 & Mdl. 9001
8'x10' Elnco 316 SS precoat filtor (2)
Ducon SS wet acrubbor 11500 cfm
8,000 gal SS mix Ianii 13'x8'
6,500 gal 316 SS cono butm. mix Iank 12'7'8"

6,500 gal 316 SS cono butm. mix lank 12'7'8" 6,500 gal 316 SS cone butm. mix lank 12'7'8"
5500 gal 316 SS mix tenk 12'x0' 5HP (11)
3000 gal SS mix tenk 0'x6'6" (3)
3000 gal Blaw Knex 316 SS vac. tank, 6'6"x 12' I5 pal/FV
PLUS MANY MORE ITEMS CALL FOR DETAILS
BUY FROM THE SITE AND SAVE

FILTERS

OLF ROSENMUND SIGSS FILTER 50/150 PSI 2 NIAGAIIA 3011 90 FILTERS SS 12'X15' "EIMCOBELT" ROTARY YAC, FILTER SYSTEMS (2) 8'X20' ELIACO, 3185S, HORIZ, YAC, USLY EXTRACTOR 0'X14' EIMCO, 310LSS, PHECOAT ROTARY YAC. FILTER 0'X12' AMSTER, 310SS, ROTABY VAC. FILTER, 300 SO.FT. 5 XO'G ASJETEK, 316SS, ROTARY YAC, FILTER, 137 SQ.FT. 5'X21' EINICO POLYPRO EXTRACTOR SETTLERS (3) 4 X20' ST.LINE HORIZ, YAC. DELT FILTER SYSTEM 12"x 13" EIMCO HORIZ, DELT EXTRACTOR

40" SHIRVER ALP FOLYPRO CON FILTER PRESS, 57 CHALICENS 48" FOLYPRO REC. P/F AUTO FILTED PRESS 22 CHAMBERS...1201 42" CURCO OMADRAPRESS MOLGEF-42/20 55, POLYPRO 30 CU. LT.

threat arealy brains, racio A CONTRACTOR OF THE PROPERTY 2236 R. Co. 1: 11. .

GLASS · GLASS · GLASS

MEACTURES 5,000 GAL, DEDIETRICH 100/V/-D REGLASSED
4,040 GAL, DEDIETRICH 100/V/-D REGLASSED
3,000 GAL, DEDIETRICH 100/V/-D REGLASSED
3,000 GAL, RA SERIES, 100/S0 TW, REGLASSED(2)
2,000 GAL, RA SERIES, 100/S0 TW, REGLASSED
1,000 GAL, RA SERIES, 100/S0 TW, REGLASSED
1,000 GAL, RA SERIES, 100/S0 TW, REGLASSED
1,000 GAL, E SERIES, 25/90 (4)
750 GAL, 25/90 TW, (2)
800 GAL, E, SERIES, 25/50, TW
200 GAL, E, SERIES, 25/50, TW
200 GAL, E, SERIES, 25/50, TW
100 GAL, E, SERIES, 25/50, TW OVER 100 GLASS LINED REACTORS IN STOCK

GLASS LINED YANKS

FROM 5-22,000 CALLONS TRAILER LOADS OF GLASS LIMEO PAIRTS AVAILABLE

• LOU FALCOME-OUR G/L SFECIALIST WITH 21 YRS. EXPERIENCE IS HERE TO HELP YOU! • Stainless syell reactors

20.000 GAL. 30:155, 40 & FV
9.000 GAL. 30:155, 40 & FV
9.000 GAL. 30:155, 50/5 PSI
8.500 GAL. INCONEL, 40/80 PSI AGIT.
6.000 GAL. 316:50, 25/90 PSI
4.200 GAL. 316:50, 25/90 PSI
2.600 GAL. 316:50, 25/90 PSI
2.600 GAL. 310:50, 1,000/100 PSI
1.300 GAL. 310:50, 1,000/100 PSI
1.300 GAL. 310:50, 15FV/125 PSI
1.300 GAL. 316:50, 15FV/125 PSI
1.000 GAL. 316:50, 15FV/125 PSI
1.000 GAL. 316:50, 15FV/10 PSI
800 GAL. 316:50, 140:50, 159
400 GAL. FIAST C., 210:FV/160 PSI
400 GAL. FIAST C., 210:FV/160 PSI

WEIKAVE ONER 70 OF STANKS

. Two large liquidations.

48"x24" TOLHURST SS "BATCHMATIC" CENTRIFUGE (6) COMPLETE ... LATE MODEL

18" DIA. SS DAKEN PERKINS TERMEER PUSHER CENTRIFUGE 60"x40" JEFFNEY SS CONTINUOUS FLUID

BED DRYER (2) 60"x20" JEFFREY SS FLUID BED DRYER 6'6x40' FULLER CS HOTARY DRYER, 50 HP 6'6x32' CS COUNTER CURRENT ROTARY

ST REGIS 3-STATION BAGGER MDL. 10-VC-3 54" DIA. DUCON 304SG SCHUBBER TYPE L

DRYER

3-95 CH. FT. DAY SAMUTARY SS RIBBON BLENDERS, 15 HP

1-43 CU. FT. THAY SAMUTALLY SS RIBBON BLENDER 1-8"R12"SS, K-S PRISCOVAT NOTARY VACUUM

FILTER 1-1'x2' K-S PRECOMP ROTARY MAGRIM PL TER ... COMPUTE MICH ALL ACCESSO-

1-7 UIA, BOWER JOHN DOWN ... COMPLETE WITH ALL AS DUEGNOTHES

William Complete Comment PRAMINE OF THE CASE PROPERTY OF THE PARTY

#Mathematical in the property of the company aralla, consequente de la colonia de la colonia

CALL DOW ADDOT TO THE TENNED AND ALCONOL FOR LOWELL

(89) Glave Band to 130 Cin. com spekana complete cuiti escalement, receivers and control parada, trans 36 gal to 4000 001.

(40) littler francisco polipera de 68 from 18" to 66" ploto/ festes & recessed

(26) Vincionia diper agatoma complete with condensors, vectors pumps and recolvers.

Double Ceno: glass & SS. Notare Vectors Dryore 316 5\$ Vectors Show Dryore 35 and Mercello

(18) Contribuges 316 35 automatic bacthat contribugou compilate will controls and otherson cones Scrubbor sputerno/Vacuum filter systonic/Glass lined and SS tank forms.

Much More III 30,000 Gal. 1974 Propanc Tank 250 10,000 (inl. 367 95 Tonks (3)

WERENT/LEASE ESELF CHILLERS

PLEASE CALL CHARLES MASON FOR FURTHER INFORMATION AT 609-443-4545

CHEMICAL MARKENING REPORTER

TO RECEIVE OUR FREE 300 PAGE ENCYCLOPEDIA OF CHEMICAL PROCESS EQUIPMENT CALL OUR TOLL FREE NUMBER 800 CHEM-CAT (800-243-6228) IN N.J. - 609-443-4545 a como

Qrtoper, 20, 1988

EQUIPMENT COMPANY

DIVISION ARECO, INCORPORATED 735 EAST GREEN STREET P.O. BOX 80

(312) 350-2200

TX 28-9454 CABLE AARONEOUT

DELIVERING THE BEST SERVICE IN THE INDU

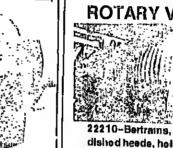
JUST PURCHASED



9'9" long, hortz, 5 HP, unitized. (2) 22252-UNUSED Bins, 4'8" OO, S/S 75 cu. II. (6)

22252-UNUSED BIRIS, 4 B OO, 5/5 /5 CL. II. (b) 22257-UNUSED Tank, 100 gal., T304SS, 30" dia., DH 22253-UNUSED Tank, 550 gal., T304SS, 4" OD, DH. 22256-UNUSED Tank, 1200 gal., T304SS, 5" dia. x7"H, DH. 22255-UNUSED Tank, 1800 gal., T304SS, 8"6" dia x7"3" 2254-UNUSED Tank, 3,000 gal. T304SS, vac., 5'dla

217H, cod. 22258 Heat Exchanger, 40 sq. H., 12" CS shell, S/S hibes 22213-Sweco, 46" single dack, S/S, (5) 32214-Wegara, mod. 320-32, 350 sq. H., S/S VT, S/S VL



21772-Bucknutscho (Rosenium) Typo) Proseniu billo 117- Dis. 75 Sq. FL, Jackoleri, ngji. 15 HP, Skila Disc

REACTORS

20252-Unused Reactor, 600 gal., 304SS dirinjke field.
10138-Piseder, 600 gal., 7-316 L SS, 55 PSI int/150 PSI.
20258-Brighton, 4000 gal., B' die. x 10°, 316 E C S/S.
20455-Reactor, 4,000 gal., 316 SS/S, 6' die. x 7'9" SI. side.
15475-Brighton, 4000 gal., 316 SS, vaccuum.
20287-Brighton, 4000 gal., 316 SS, jišpo coll jikt.
20237-Brightond Eng. Rosctor, 4600 gal., 7316 stahlyclant.
Plauder 10,000 gal. reactors T316L. 100 psi int. 180 psi
Plauder 15,000 gal. reactor T316L. 100 psi int. 180 psi int. Plaudier 15,000 gal. reactor T31GL, 100 psl ini., 200 psl jkl.

MIXER/EXTRUDER

17654-AMK 25 gal. Mixitrudor, Siguna, ST 7.5 HP. 18296-JH. Day 25 gal. Disporatora, 25 HP vari main, 10 t IF 0998-AMK 30 gal. S/S, jkl Siguna, 7.5 HP Main, 0 Hr

2098AMK 30 gel. S/S. Jk1 Sigma, 7.5 HP Main, 0 HP Szrew.
2132-Ross 40 gal., S/S het eil Jk1., Sigma 6" disch. screw.
19828-AMK 50 gel. ST. Jk1., Sigma, 10" disch. screw.
17136-AMK 75 gel. ST. Jk1., Sigma, 10" disch. screw.
17136-AMK 150 gel., S/S. Sigma, 11.5" screw.
19494-AMK 150 gel., S/S. Sigma 15HP main, 10HP screw.
19494-AMK 150 gel., S/S. Sigma, 50 HP main, 10HP screw.
20118-AMK 150 gel., ST. Sigma, 15 HP/10 HP
503527-New Aeron 300 gel., T304SS, mlx axtruder, Sigma.
Jk1. up to 200 HP main, 75 HP hyd. screw.
STELL INSTALLEO... CALL NOW!

21350-B.P. 500 gal. Sigma steel, jkt. 125 pel,150 HP, Hyd. lilt MIXERS - PLOW

503755-Littleford, FKM 600D, SS jacketed, 25 HP. 20754-Littleford, FKM 30000 65 CF, S/S, kull jacket. 19214-New Plow Mixer, 80 cu. ft. 347 SS, jacket, 100 HP. 20899 1 May Plow Mixer, 80 cu. ft. 347 SS, jacket, 100 HP.

20829-Littleford FKM 42000, S/S, 87 cu. ft. JKT.

MIXER RIBBON

VIIXER RIBBON
21120-Ribbon Biender, S/S, 10 cu. ft., kil. SS, 150 psi.
20276-Read ribbon blender, 14.7 cu. ft. 304SS, 3 HP.
20189-Robinson, 25 cu. ft., S/S, Jacket, 10 HP.
20189-Robinson, 25 cu. ft., S/S, Jacket, 10 HP.
20189-Ribbinson, 25 cu. ft., S/S, Jacket, 10 HP.
20189-Ribbinson, 25 cu. ft., S/S, 15 HP.
19268-Ribbon Mix 80 cu. ft. T304 SS, 5 HP (4)
19268-Ribbon Mix 80 cu. ft. T304 SS, 5 HP (4)
20189-Sirong Scott blender, 130 cu. ft., 304SS, 25 XP gear
motor.

motor. 21 124 Albbon Biander, 30489 [kt., 160 cu. ft., 30 HP. 20614-Unused JH Day ribbon, S/6 270 cu. ft., 25 HP. 21 114-JH Day ribbon biander, S/S clad, 75 HP, 480 cu.ft.

UNUSED CENTRIFUGES

21593-Sherples P5400 Sanitary Centrifugee w/200 HP motor, 25 HP beckdrive, geerbox, 5" pitch conveyor, CIP, control penel (2) LATE MODEL

CENTRIFUGES

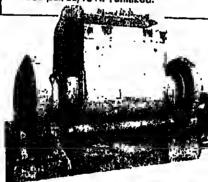
20827-Bird, 18":24" steel, conical bowl, 20828-Bird, 24":x36" steel, con. bowl, gearbox, 20819-Bird, 24":x36", S/S, 15 degrae, contour bowl, 20661-Bit d 24" x60". H sames, steel w/motor. 20364-Bit d 32" x50". SS T316 contour, 75HP 20137-Affa Laval, NX 418-B31-G0, 316S.S. gearbox 17306-Dorr Oliver, 304SS, Marco mdl, 16L, 30 HP. 1/304-DOT Oliver, 30435, Marcomol, Tot., 30 hr. 1355-Sharplas, mdl P 600, gearbox, motor. 19767-Unused Sharplas, 3 phase, P3000, S/S, carbide. 20407-Sharples P2000 316SS, 20 HP drivo motor. 21359 Sharples P3000 w/goailbox 20686-Sharples P3000, 52:1 goalbox, S/S casting. 21725-Sharples, P3400, S/S, gearbox & motor 19249-Sharples, P5400, 316/317SS, 200 HP, gearbox

CENT-BASKET VERT.

21408-Dolpval 22"x16" porf-basket hyd. iliivo. 15815-Dolaval Mark III, perf-basket, 40" x24", 316SS. HP, hydr , diwe 19446-Shaiples Studge-Pak, SP-5500, 40 x24" haske

ROTARY VAC DRYER

22210-Bertrams, S/S 8'dia. x 12' dished heeds, holt pipe coll jecket 200 psi, 20/13 HP, unitized.



21459-Bakar Parkina Mixer, dbl. erm, C/S, 300 gal Geared both ends, 100 HP, mod. 18JUMMZ.

FILTER PRESSES

18846-Shriver P&F litter press, 12"x12" alum. platas. closed delivery, 23 chambers. 20534-Sperry Filtar Press, 30", alumn. 20539-Sperry lilter press 30", 35 Aluminum pietas, 367 sq. 16370-Shriver 32" x 32", polypropylena, 27 plates, ratchsl

closing. 15829-Shriver ALP, plate & trame, 18 36" x 36", S/S re-

076-Sperry filter press, 36", cast from pletes, closed deliv 18462-independent filter press, 42" x 42", polypropylene, 4 eye closed, 34 chambers. 20550-Sperry filter press, 42" Ehol closer, 41 alum. plates.

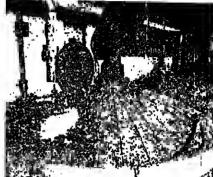
Special Sale

MUST MOVE STAINLESS TANKS 12,000 GAL., T304SS, 12'Dia.x 14' high, flat bottom, open top (16) PRICE \$8000 ea. FOB PA #20655

TANKS-S/S 21283-Tenk; 8/8 vert, 1200 get, 8' da.x6', flat top & bot. 20851-Tenk; SS, 8000 get, epit, 12' da. x 14'6' H. 20855-Tenk, 8S, 12000 get, 12' da. x 14'; flat bottom,

open top. 17043-log Oet horz, tank, 3048S, 19,000 gat., 12'6" dia, x 22'814" long, 10 PSI:

LIQUIDATION SALE BUY FROM CALUMET CITY ILLINOIS LOCATION AND SAVEI LARGE POLYSTYRENE PLANT



21898-Brighton Corp. 12,000 gal. veasel.

21875-Bins, 176 cu. ft., S/S, cons bottom fist top. (4) 21891-Bins, 450 cu. ft., C/S, spoxy lined. (8) 21804-Bins, 450 cu. ft., C/S, spoxy lined. (8) 21805-Bins, 500 cu. ft., C/S, spoxy lined. list top, coni-



21888-Strong Scott Rib Blender

21815-Goulds, C/8 turbins pump, 200 HP. (2) 21813-Worthington cant, pump, S&S, 2 HP. (4) 21812-Union pump-inline, 8/S, 7.5 HP (2) 21888-Ptaudisr Reactor, 1,500 g al., 318L 8S dimpla jkt.

21886-Ptauder Roactor, 10,000 pal. 318L SS clad, 60 der Reactor, 15,000 pal. 318L \$8 dimpla



21871-Prodex 8", 30:1 L/D Extruder.

21808-Edw Renneburg Rol. Dryer, S/S, aleam heat, 10 21881 - Hesters, C/S ateam, type BNF 2420 (8)

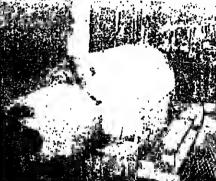
21609-Katron Feeder twin srew, 8/8 mod. 5400-160 (4) 21001-8parkler liltar, 362 sq. ft. C/S, mod. VR-32-32. 21882-Screw conveyor, 304 88, 7" die. x 11L, 1.8 HP. 21888-Strong Scott Rib Blender, 25 cu. ft., 5 HP. (3) 21920-Welex extruder 8", 30:1 L/D, 400 HP. 21870-Welex extruder 8", 30:1 L/D, 600 HP. 21878-Consir pelletizer, 8/8, mod. 1024, 40 HP. (2) 21874-Weter batti, S/8, portable. (4)

21887-Rose Statio Mixer, 30486, 3"x8 element. (4)

21878-Gorman Rupp pump, centrilugal, C/S mod. 82EZ 21871-Prodex extruder 8", 30:1 L/D ratio, 600 HP. 21892-Bultalo bio wer, aize 30, C/S, 10 HP (3) 21808-Bulisto axhauat ian, aize 38, type 8, 15 HP. 21880-Sutor Bilt Btowar, C/S, 40 HP. (4) 21822-Butialo biower, type 40-3 CB, 40 HP. (4) 21894-Butialo biower, mod. 45-3 CB, 75 HP. (3) 21883-Bird, 32 x 50 centrilugo, 80:1 gearbox. (4)



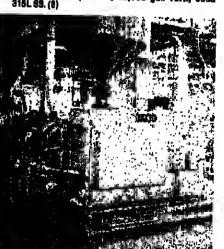
psi (2) 2 1879–Sweco silter 60", incil. LS60S88, 2.5 HP, 21923–Knson sitter 60", moil. K601SS, S/S, 1 HP. 21804-Flotronics Cyclone med. FTHEC370-T, 304 S/S



21883-Bird Centrifuge, 32x50, 80:1 geerbox.

2 1893-Environeering scrubber, mod. A33-14000 21885-Tank, 850 gal. vert. coal far epoxy lined. 21811-Tank, 8400 gel. vert. C/8 epoxy coated Ret top/

bot. 21903-Tenk, 50,000 gel. vert. C/S epoxy, flat bot. conl-



21870-Well x 8" Extruder, 600 HP. 21897-Metal Arts Corp. vessel, 17,000 gat. vert. 317L SS. (2) 21810-Tank, 840 gal., flet top & bottom. 21920-Modern Welding Tank, 4890 gal. horiz. rubber fined.

AARON BUYS COMPLETE PLANTS FOR LIQUIDATION CALL LES OR JERRY COHEN TODAY: (312) 350-2200

October 20, 1986

TOREMICAL MARRETING REPORTER

WE WILL PURCHASE INDIVIDU-AL ITEMS OR COMPLETE PLANTS.

CALL OUR OFFICE TODAY, TOP DOLLARS PAID, NO DEAL TOO BIG OR TOO SMALL.

DRYERS

Drum Dryers/Flekers (1) 24" die. x 36" Buflovac 85 dbts. drum (2) 32" dlo.x tO8" Blav Knox Cl dble. drum

dryar (1) 32"dia. x 17"9" Sandvik SS beli tiakor (1) 38"dia.x 10" Oullovak Cl dbla. drum dryar (3) 42"dia.x120"Blow Xnox Cl dble. drum (1) 48"dia.x 28" drum tlokar, chroma platec

11 48"dla.x 40" Cl flaker, mrg. by Suttelo

Foundary

13 - 48" dia.x 40 drum flaker, alckel plated drum, mig. Blaw-Xnox

Fluid Bed 1) 60 Xg. Aoromatic, 8 atch, 6'x9', 86,000 1) 100 Kg. Aaromatic Model ST 100, aanitory

SS 1) Fitzpairick Model FA 250, SS, 20 HP XP Holofilte

(1) Wosters Precipitation Model P80880-A, twis scraw, 12" dis. x 20" losg, 85 coastr., joki. rated 15 pei, complete with 7.6 HP vori-speed drive.

11 Naw/Nover-Used Joy Processor, CS, single screw, t8"x15' long, roted 110 psi@ 340° F., sprocket 6 chain drive by 1.5 HP varispeed drive.

Rotary Vacuum

1) 200 Cu. Fl. Stokas, SS consir., compit.
2) 165 Ca. Ft. Ptsudier, Double Coae, G/L, 30
a Ft/50 pai jktd., 15 HP veri-drive
1 150 Cu. Fl. Slaw Knax, Nickei
2) 132 Cu. Fl. Slokes, Nickei
1) 72 Cu. Ft. Stokes, Nickei
1) 60 Cu. Ft. Titzakur Doabla Cono
1) 60 Cu. Ft. Oamco, 31688 saattary, doubla cone

cone (1) 37.6 Sq. Fl. Horiz. Thin Film, vac. Int. 6 160 paig, 304/3 t868 (1) 37 Cv. Fl. Oemco, 68 (1) 30 Ca. Fl. P-K Twia Shell, 30488 (1) 20 Ca. Fl. Abba Twia Cona, 30486

30"x3" Cowan Leborolory w/3" cons bot-lom, 60 coastr., w/ceastrfugal etemizer, 3 ilP blower 6 motor.(1)
 Nice tab size 32" disx2"w/2" cone w/ceastrit.

elomizer 58 contacts
1) 18' dia. Bowea compit. ayatem 68 contacis, new 1076

CENTRIFUGES

Octavel BRPX 309, 65, 20HP Unused Model B-10 Podbiel Sharples AS-16P, 356SS

(2) Oorr Oliver Mdl. CH30 CSU "Merco," 31688 contacts, \$50 HP

1) Baker Perkins S-32 "Pushar Typo," S\$, 60 HP

11) 8ird 58" x 28", 316 ELC, contour bowl. (2) 8ird 24" x38", 318 SS, 40 HP (3) Sharptes P-3000, 316SS, 30 HP (1) 6harptes P-1000, SS 20HP

) Uaused Bird 36 x96, 317L SS (1) Tolhurst 48" x 24" perf. baskat, 318SS sentiery, auto. plaw & discharge, reted 85 #/cu. ft. @ 900 RPM, 20 HP XP.

(1) Tolhulef 46" x 24" Balckmastor, 316SS, perf. (1) Tomolar 48 x 24 Salckmaetor, 31eSS, perf. baskel, w/hydr. plow 6 20 HP hydr. drive (1) Toihusat 48 x24 Batchmaetar, rubber lined, perf. baskat, w/hydr. plow 6 20 HP hydr. drive (2) Toihurat 48 x 24 Batchmaeter, Herasite lined, pert. baskat, w/hydr. plow 4 20 HP kydr. drive

) Westers states 48"x 24", 316 S8

Fiatcher 48"x 26" Suspended type, 80 pert, Paskat, 20/50 HP (1) Sharpise Tornado 48" x 30", 31689, peri. basket, 40 HP XP [1] Alta Leval Modal MAPX 210 T24, 86 wetled

parts 1) Sharpise C-27, 318 SS, watted parts, 40 HP) Sharples C-20, Super-D-Hydrator, SS, 30 HP I Dorr Oliver Mercons Screener Model C-400 X2. all SS, twis screw disch., 10 HP

PARTIAL LISTING ONLY

RIGGING

DISMANTLING

RE-ERECTION

DEMOLITION

Call For Complate Details

LARGE QUANTITY SILOS

Many Screw Conveyers Available Various Sizes, C.S. & SS Construction

Buy Direct from Plant alta And Save

LIQUIDATION OF 160 M.M. LB./YR.

SODIUM TRIPOLYPHOSPHATE PLANT-KEARNY, N.J.

EVAPORATORS (1) 1 Sq. Ft. Artislan "Kontro" Ajust-O-Film sys., 81858
(1) 1.4 Sq. Ft. Lurva Wiped Film, 31855, 1.5 HP
(1) 1.4 sq. Ft. Lurva thin film SS
(1) 2.3 Sq. Ft. Rodney Hunt Turbo Film 347 S3
(1) 5.4 sq. Ft. Lurva filmmuder, 616 LSS
(1) 6.54 Sq. Ft. Lurva filmmuder, 616 LSS
(1) 6.54 Sq. Ft. Votator Eveporator System, 316 SS contracts, 16 pal S FV 2 int., 150 pal jtt.
(1) 18.7 Sq. Ft. Rodney Hunt Turbo-Film, 304 S5 contact parts, 16 pal if FV/150 pal jct.
(1) 10.8 Sq. Ft. Lurva SS Wiped Film Evap. System, 15/550 pal
(1) 19.5 Sq. Ft. Votator Turbo-Film, 304 Sant. SS FV/150 pal
10HP

(1) 8'6" dia x 46'6" Bartiett Snow Rotery dryer, 316 SS, 100 HP (1) 8' die x 50' Louieville Steemtube

(1) 11'6" x 70' Long Bertlett Snow Calciner, 318 SS, 1100° C,

(1) 12' dla C.E. Raymond Seperator,

8ingle whizzer
(2) Roto-Clone Type N Wet Scrub-

bara SS constr.

Rotary drysr SS clad, 40 HP

(1) 20 Sq. Ft. Kontro Horiz. Adjust-O-Film, 318ELC, 50 paig. 16 (1) Approx 31 Sq. ft. Vert., Turbo-Film Processor, 304 SS Contacts 11) Like New 67.8 Sq. Ft. Luves Horiz. Thin-Film Dryer, 304/316L

\$5 (1) 40 Sq. Ft. Kontro Adjust-O-Film, 86 constr., 20 HP (1) 47 Sq. Ft. Arthans rising Film, Heat. "C" (1) Approx 61 sq. ft. Pfaudie: Wiped film, 316 SS, 100/85 6 Fy (1) 80 Sq. Ft. Kontro Wiped Film Syst., 55 constr., FY/150 psi, An Lin

40 No. 1. Notice wiped Film Syst., SS constr., FV/150 psi, 40 No. 111 UNUSED 86 sq. ft. Luys thin film dryer horiz. 316 L wetted parts, FV htt., 150 psi sal steam jkt.

(1) 141 SQ. Ft. Rodiney Hunt Turbo-Film, 318 SS 15 pel int., 35 psi jet 40 No. 37

BLENDERS

Cu. Ft. jktd. Obl.Ran., CS
ox. 480 Cu. Ft. jktd. Obl.Ran., CS
ox. 480 Cu. Ft. Qr. 75HP
2E0 460 Cz. Ft. Marian Paddle, CS, 75 HP
v. Ft. Qr. Obl. Cone, 30 HP
v. Ft. Jkt. Dey bbt. Abbon Carbon Steel Centr. 40 HP (2)
at. Ft. X6 316SS Dbt. Cone
v. Ft. Pk. Winn Sheit, 318S6
v. Ft. Jkt. Winn Sheit, 318S6
v. Ft. Jkt. Dey bbt. Ribbon Carbon Steel Centr. 25 HP (2)
at. Ft. Qr. Obl. Cone, 7.5 HP
v. Ft. Marian Paddle, CS
v. Ft. CS Obl. Cone, 7.5 HP
v. Ft. Marian Paddle, CS
v. Ft. CS Obl. Cone, 304SS
v. Ft. Qr. Obl. Cone, 304SS
v. Ft. Pk., 304 SS, W. Jist, bar.
v. Ft. Pk., 304 SS, W. Jist, bar.
v. Ft. Pk., 304 SS, W. Jist, bar.
v. Ft. Pk., 304 SS, W. Jist, bar.
v. Ft. Pk. Sol SS, W. Jist, bar.
v. Ft. Pk. Sol SS, W. Jist, bar.
v. Ft. Pk. Sol Seat T win Bheit 1/4HP
v. Ft. Howes, Ce. Dbt. Rbn.
v. Ft. Pk. Seat T win Bheit 1/4HP
v. Ft. Pk. Seat T win Bheit 1/4HP
v. Ft. Pk. Seat T win Bheit 1/4HP
v. Ft. Pk. Solb. Cone W. Jisquid-solids bar
v. Ft. Pk. T win Sheit, SS Conetr., W. Jin Int. bar
v. Kx Jig xag

FILTERS

Pressure Leaf 1-S62 Sq. Ft., 318ELC, Harcules, 28 leaves

(1) 10,000 gal. Mix tank, SS conetr. 13' die x 10', 30 HP

(2) 10,000 gal. Mix tenka w/int.

(1) 4,300 gal. Storags tank, 304 SS,

(1) 3,400 gsl. Jkt. tank, SS conetr.

(1) 2,600 Storege Tank, SS conetr.,

colle, 13' dla x 10', 30 HP

91/2' dle. x 8'

150 pel jkt.

7' dle. x 9'.

(1) Butler Building

1-512 Sq. Ft., 316SS, Niagare, 21 leavas 1-400 Sq. Ft. R/L Sparklar 1-327 Sq. Ft., 3048S, Ind. Filler, 11 lasves 1-320 Sq. Ft. Durco 316 SS, 11 Leaves 1-259 Sq. Ft. Pronto Mdl. #3259, 76 pelg 1-200 Sq. Ft., SS, Harcules, Horlz.

1-191 Sq. Ft. Enzinger, SS, Vert., 75 pel 1 - 167.64 sq. Ft. Sparkler model S5-5-28, 31658 -150 Sq. Ft. Horlz., 12 Vart. Leaf 318SS 1-135 Sq. Ft. NJ, Bowser, Vert. 1-35 Sq. Ft. Harculee Model 8, 318 SS, horiz, tank vert leavas 80 pel

Rotary Vacuum

1-58.5 5q. Ft. KS, Inconal 600 1-56.S Sq. Ft. K-S, 31698, liaxibatt disch. 1-87.92 Sq. Ft. Fainc, SS wetted pertaspring disch., S6" dia. x 6' facs drum 1-132 Sq. Ft. Dorr Olivar, 304SS, maxibelt

-200 Sq. Ft. Elmco, 3188S, 8'x6' 4-250 Sq. Ft. D.D. 316L SS Precoat, 6" x10', sani

1-250 Sq. Ft. K-S 31895, coll diach. 1-300 Sq. Ft. Elmco, 316SS wettad parts, pracoat type w/knila diech., 1D" dia. x 10' drum, compit. w/control panel & sux. equipment -314 Sq. Ft. Elmco, pracoat diach., 318SS

1-400 Sq. Ft. Elmco, CS, Precoat 1-500 Sq. Ft. Elmco, 318SS, belt disch. 1-3'x1' 31895, knife diach. 1-3'x1' Dorr Oliver, FRP w/receiver & Nach

H4 vac. pump, 10 HP 1-3'x 1' K-S comp. sys., 318 SS Flax-belt

RECENT PURCHASES

OO FILTER BONANZA OO Sparkler pressure teaf Filters, All stainless Steel Construction I-Model #33D9 1-Model #184D 1-Model #18D12 1-Model #33928

1-Model #18D12 1-Model #33828

Model OA80 - 6 |ki Fitzmili, 88

Model OA80 - 12 |ki Fitzmili, 88

18"a 18"a 42" 85 Pagmili, 3HP Variapaed
40"a20" Tolhural centrifuga, Kynar lined, perf. basket
4500 Get 85 mixtask, 50 pet
3500 Get 85 mixtask, 50 pet
3500 Get 85 mixtask, 50 pet
400 get, 67 Petudier Vert Reclever, 55 Pst.
81 Regle 8eg Packer, Model#718 MLT.
5000 Get, 304 88 jektd., Mix Tesk
5,600 get, 316 68 Mix Tesk
6,600 get, 316 68 Mix Tesk
7,600 get, 316 68 Mix Tesk
1,2 w/jki, 4 w/int colla
2 dis. a 3" Chrome Pisted Flaker
Alis-Lavel Centrifuge, Model NX214/614.
8000gat, C5, Ammonie 6torage Tank, 250 P6t.
60 cu. ft. PK Blender 304 85 w/int. ber
63 cu. ft. C/8 Merion Paddie Elender
2 cu. ft. PK Blender 315 88
178 cu. ft. Prodas-Heneckal Missr, 88
500 liter Welex Mixers, 66
Lititelord FKM-500 Miser 85 (2)
1760 get, Rescuter 616 88, 13 P6t lat. 40 pet jckt
1000 get, 616 66 Reactor, 106 % FV/50 pet jkt., 10 HP

ATTRACTIVELY PRICED

1 - Approx. 51 Sq. Fl., Plaudler, Wiped Film Evapor, 316 SS wetted parts ASME Coded, Jacket rated 100 psl w/Internal vacuum. Complete w/flange mounted motor to Plaudier TW drive w/machanical seal, lubricator & integral heat exchanger.

Call today for more

MANY MORE ITEMS IN STOCK-CALL IDM TODAY!

YONAY Int'l. Dismantling & Machinery Corp.
P.O. BOX 388 SOUTH RIVER N.J. 08882 (201) 390-9550

REMOVAL (201)390-9550 TELEX:642-863

ALWAYS BUYING & SELLING SURPLUS PLANTS & EQUIPMENT

RIGGING/DISMANTLING DEMOLITION/ASBESTOS REMOV

ACCUMULATORS

ATTRITION MILL

SOILERS-ELECTRIC

BOTTLECLEANERS

Standard Metal Co. model J1 600 bottle cleener. BUNDLER

ATTRITORS

CAPPERS

CASE ERECTOR

CASE PACKER

CASE SEALER

CENTRIFUGE

COATINGPANS

perser, 460 V. DUST COLLECTORS

EXTRUDER

CODERS

Meer Hydro drop caser, model R3KT.

2007min. COMPRESSION SECTIONS

New Way compression Section, model F, 6' long. CONVEYORS—SCREW

ABC Junior top end bottom case seeler, with cold glue

Eligit model 5200 top only case seeler, pressure glue.

Elliott model 5200 top only case seeler, with pressure glue. Sienderd Knapp case seeler, model 462HM, top only. Nordson hot n

Western States 48"x30", perforate, 316 S/S, 50 HP XP hydraulic.

Shareka 30" x 18", 316 S/S, solid bowl, top unload, 25 HP. Alfa-Layald'sc certiler, 304 S/S, menuel unloading, 715 HP TEFC.

Thomas Machinary 38" diameter stainless steel, angular coating pan.

Gottscho Puise Jel Coder, model SH/RH, non contract, line speed

Screw Convayor, stainless steet, 7" die. x 138" tong, 6" pitch, 15 HP. S/Surkad station w/7" die. vert. screw conveyor, discherge 132" H.

Hockmeyer model M, 10 HPXPYS disperser, with tub holder.
UHUSED Hockmeyer 200/100 HP XP, tank mount, high speed dis

perset, 460 V. UNUSED Hockmayer 200/100 HP XP, tank mount, high speed dia-

Carter-Day dust collector, 170 sq. ft., 1,800 CFM, 712 HP molor.

Frodex sxfruder, 312", 21:1, 5 zone, 40 HP veriable speed.

CHEMICAL

MARKETING

REPORTER

Quickest Way

to Keep Current

on Chemical Costs

OISPERGER
NELY Schold Disperser, model VHS 400, 20 HP explosion proof.

Standard Hela! 48" diametar, statiniese steel accumulator. AIR COMPRESSORS Ingersol Rend 25 HP, air cooled, air compressor, 100 CFM, 100 PSI

avermelster aftrition mill, model UT 12, 12" diameter rotor. 15 HP.

Process attritor, size 15, 1/2 gallion, 1/4 HP explosion proof.

Chrometox 100KW, 341,200 BTU's, water glycol heet trensfer system.

Great Lakes bundler, model 500-2, automatic bundler and sleeve wrep.

ABC Form-A-Mailo, model S-77, forms and bottom seale, 35-70 casos/

C2F Consolidated capper, set for 63 mm, 60 caps per minute.

WE ARE EXPERTS AT DISMANTLING REERECTION, RIGGING DEMOLITION AND ASBESTOS REMOVAL WITH TER-RIFIC REFERENCES BOTH NATIONALLY AND INTERNATIONALLY

CALL US TODAY FOR A QUOTATION ON YOUR CURRENT NEEDS OR ADD US TO YOUR BIDDERS LIST FOR ANY FU-TURE PROJECT (201) 390-9550

GLASS...GLASS...GLASS

WE ARE GLASS SPECIALISTS WITH A TREMENDOUS INVENTORY FEA-TURING UNUSED, USED AND REG-LASSED ITEMS. OUR SHOP PER-SONNEL ARE FULLY TRAINED TO HANDLE GLASS.

REACTORS

Glass Lined

4,000 Gal. Pfaudler, 100/90 pal, TW 4,000 gal Plaudler, 50/30 pal 3,700 gal Glaacota, 50 & FV/90 pal 3,000 gal Glaacota, 50 &FV/90 pal 3,000 gal Plaudler, 75/90 pal 2,000 gal Pfaudler, 75/90 pal 1,000 Gal. Pfaudler, 100&FV/90 pal,

1,000 Gal. Plaudier, RA60 Series, 100å FV/90 pel, 4DW 1,000 Gal. Plaudier, RA60 Series, 100å FV/90 pel, 4TW 800 Gal. SS clad, 60/60 pet 750 gal. DaDlatrick, Phila driva

500 Gal. Plaudiar, 100&FV/85 pel, 8H

Stainless Steel

4,000 Gel. 316SS, Atmos./50 pel, withcole 3,000 Gel. 347SS Blaw Knox, 150/50 pel 2,500 Gel. 319L SS, 7S/75 pel, 150 pel int.colt 2000 Gel. Nootar Autoclava, 316L 2000 ps), FV int. colle 2,000 Gal. Dueanberg, 316 SS,15/35 &

FV Int., 50 pal jkt.
1,750 Gal. 316SS Nolta, 1467/50 pel
1,500 Gal. 304SS, 1D HP Lightnin
1,500 Gal. 304SS, 100/3D pal
1,000 Gal. 316SS, 50/75 pel jkt

1,000 Gal. 316 SS, 15 & FV/50, 10 HP 1,000 Gal. 316 SS, 100/3D 1D HP 750 Gal. 316SS, 75 & FV/50 pel 750 Gal. 316SS, 76 & FV/00 per 750 Gal. 304SS, 50/80 par 600 Gal. 316SS, 3000per, 10 HP 800 Gal. SS, 50 par, 1.5 HP XP 600 Gal. 316SS, 55 & FV/5S per

100 Gal. 316SS, 15/50 pel 100 Gal. 316ELC SS, 500/90 pal

** SPECIAL OFFER ***
4-DRAIS SAND MILLS, TYPE PM-80STS-DDA. MANUFACTURED 1984-85. PRICED TO SELL . CALL FOR DETAIL

MIXERS

4.S Gal. Kneeder Meater Cont., SS w/kl. 5 Gal. AMK 304SS Jokid. Kneeder Extrader 15 Gal. W.C. Readco Sigme 8lede Obl. arm 25 gal. Readco OBL /Arm Sigme 8lede [ktd. St. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Cont. Inches | St. H. P. Con construction 1S H.P. 80 Gel. Hockmayer Pony, SS contacts, 7.6 H

variepeed
100 Gel., SS, Sioma Blede, Jokid. 40 HP
200 gel. W-P CS oble arm Sigme biede, 20 HP
260 gel. W-P CS oble arm Sigme biede, 20 HP
260 gel. AMK Knaader Eatruder, Sigme
Bledee, CS conetruc, 40 pelg, trough jkl.
500 liter Walex hi Intenelly, SS coniect paris
500 Gel. S-W Rubber Cement, CS, 2-10 HP

500 Ge). S-W Rubber Cement, CS, 2-10 motors (2)
Unused 1000 Gel, Senitary 31638 B-K Obl. Motor
Chenge Cen; 100&FV/166 PSI, 125HP
Littlelord Model FKM-8000, SS
Littleford Model FKM-8000, SS
Littleford Model FKM-2000, SS, w/choppert
Littleford Model FM 100 Senit, SS w/choppert
S.5.Cu. Ft. Prodex Henchel Md, 35 J SS, S6 Conel.
7 Cu. Ft. 304SS Neuta Model M6X-70
10.8 Cu. Ft. Neuta D-105, CS
Walding Eng. Model 2FV1V2S Twin 30787
Extruder, SS, Contacts, 150 psi
Koehring mdl, 350, 40 HP

PLUS LOTS - LOTS MORE

LICENSED ASBESTOS

We have the machines you need—Now!

RAYMOND

FADE-OMETER

FILLERS-BAG

FILLER-PAINT

FILLER-PISTON

s Electric Devices Fade-Ometer, model 18-FT

Ambrose filler, model PF-9 Elgin Double H paint filer with ild embosser.

Stoker model CR beg packer, 3" dla. x 11" long apout, 20-250 lbs. cap. Stoker model CR beg packer, 3" dla. x 11" long apout, 20-250 lbs. cap. Stoker model 15 VR bag packer, 3" dla. x 9" long apout, 20-250 lbs. cap. Sloker model 15 VR bag packer, 3" dla. x 9" long apout, 20-250 lbs. cap.

iderson model 340-4, S/S, 32 oz. piston, cup littler with plug capper.

Eigin Single Piaton Filler, nickel, 132 oz. cylinder, no conwey, Eigin Twin Piaton Filler, nickel, 132 oz. cylinder, no conwey, Eigin Twin Piaton Filler, steinless steel, 2-70 oz. pistong Bigin Twin Piston Filler, steinless steel, 2-70 oz. cylinders FILLER—POWDER Parsong myckel C. 404-Eigin 4.

Persons model C, 10 head filler, 7-14 oz. fil. 8.F. Gump Edibazer-Duplex nel weigh, size 3, semi-automatic. Persons Model C, 6 head, 7-14 oz. filler FILLERS—TUBE

Kellx KX-60 metal tuborbler, S/S, agilated hopper, 2 to 163 cc fill. GEAR REDUCERS

20 HP exp. proof. 125 RPM output, class 3, horizontal parellel shaft. 20-10 HP XP, horizontal, parellel shaft gaerheed. 260 140 output RPM 71/21 HP XP, horizontal, parellel shaft gaarheed. 260 140 output RPM GRANULATOR - OSCILLATING

GRANULATOR - OS CILLATING
Cherry Burrell Model 542, 5/5 oscillating grenulator.
Cherry Burrell Model 542, 5/5 oscillating grenulator.
Cherry Burrell Model 542, 5/5 oscillating granulator.
Cherry Gurrell Model 542, 5/5 oscillating granulator.
Cherry Gurrell Model 542, 5/5 oscillating granulator.
Cherry Burrell Model 542, 5/5 oscillating granulator.
Cherry Burrell Model 542, 5/5 oscillating granulator.
Stokes oscillating granulator, model 43A, carbon steel construction.
Stokes oscillating granulator, model 43A, carbon steel construction.
GLUER

Owens lilinois inner seel gluer, for jars and bottles.

Owens Itinois Innar seel gluer, for jars and bottles HOMOGINIZERS

ABELER-SEMI-AUTOMATIC

LID DROPPERS & CLOSERS

Elgin model Silid dropper and closer, 4 HP.

Starfoo 12 KW hot oll unit, 440 volts. KETTLES-MIXING

Menton-Gaulin homoglalzer, 2,500 GPH @ 3,000 PSI, 76 HP. HOT OIL UNITS

Hamilton 200 gallon S/Skettle, double motion, 2 HP VS, 45 PSI jackel.
Groen 150 gallon S/Skottle, jacketed, 10 HP TA egitation.
LABELERS-AUTOMATIC GLUE
Surf of through lebelor, model AU 404.
LABELER PRESSURE SENSITIVE
F

Fasson model M-11-R pressura sensitive labelor, S' max. web width. Fasson model M-11-R pressure sensitive labelor, S' max. web width.

Lebelette model 1418 labeler, hot melt, 1/2 pint to 1 gal. w/ears

PULVERIZING MILLS Immediate Shipment (312) 541-5600

wabash

Wabesh Power Equipment Company 444 Careener Avenus PO Tios C Wheeling Phinois 6009s Phone 31275475600 10LEX 7872556

MADISON EQUIPMENT

Super savings on used processing and packaging equipment Choose select machines from our hugo inventory of used processing and peckaging mechinary. Medison will eava you time and money ... try usi

MONTHLY HIGHLIGHTS

LEE 1000 & 2000 Gal. Mixing Tanks. 316 S/S
LITTLEFORD Lodiga Mod. KM-3000
S/S Continuous Mixer

(3) 10 Cu. Fl. S/S Ribbon Blenders RIETZ 6" Extructor KEMWALL Powdar Presa STOKES Mod. 526 Single Sletion

Qual Pressure Tablel Press STOKES Med. 338-D-6 Vacuum Orver/Oven AMF GLEN 340 Ot Mixer

(1) RESINA U-30 and (2) U-40 Ceppars
PMC 6-Station Automatic Cep

Pluggar MATEER Burea-hil S/S In-ceaa Scala Filling System
CRANDALL Twin S-Gel. S/S Scele

1

For a complete flating of our Huge, in-Stock inventory and our new Fall '88 28-page Brochure listing thousands of choics Usad machines at escaptional values, Cell us

312-533-5800



MADISON EQUIPMENT CO. 2950 West Carroll Avenue Chicago, IL 60612 TWX 910-221-5157

这一种,这个人的人,不是一个人的人的人的人,

CENTRIFUGES

SHARPLES AS-16,16V,26 S/S clar./ssp. (Rebuilt)

BAKER PERKINS HS-10W S/S "Lab" peeler

BIRD 24x60 ST/CCF deelgn WESTFALIA SAMR 5038 SS 15 HP DELAVAL ACVO Disc/Nozzie SS 20 HP KRAUSE-MAFFEI 18.5" Pusher S/S (Rebuilit

SHARPLES P-3400, 4000 86 horiz, solid bow

ALFA-LAVAL NX-214SS DECANTER 20 HP

SHARPLES 48"x3D" T-1800 AUTO 316 95 (2)

SHARPLES Mark 3 14" 85 perf. euto basket

P/K 2, 10, 15, 75 cu.ft. SS Twin Shell w/bar Reedco 5 gel. SS dbnl.sm jkt vac. 5 HP 120, 135, 155, 250, cu.ft. dbi rib

300 gel. J.H. Day Pony Mixer Steel w/can J.H. Dey 300 Gal. S/S dbl. srm tilt

Patterson 49 cu. ft. rot. vsc. cyl. 9/5 3'x 7'

BOWEN 4'6" No. 2 TOWER SPRAY DRYER E/8 QAE NOZZLE

Spray Dryer, Bowen 30" lab, Niro 48" utility 5/5

7/K 5, 10, 370 cu.fl. 85 llq-8pf. Processor LOUISVILLE 9x45 SS Rot. Hot Air-Steam

2) Vrieco 100 cu.ft. S/S Neute Mixars

Readco 300 gsl. S/S dbl. sm 80 HP

LITTLRFORD 42 cu. ft. 8/8 jkt.

MIXERS/BLENDERS

DELAVAL MAPX-207 S/S

MILLS-COLLOID

MILL-HAMMER

MILLS-KADY

MILLS-THREE ROLL

MILLS-TWO ROLL

MILLS-STEEL BALL

MIXERS-BAKERY

MIXERS-PAODLE

P.O. Box 469

(6) 2) 476: 4500

| North Chicago, Illinois 600034:0469

MIXER-DOUBLE ARM

Thropp 6"x12" two roll mill, 712 HP. MILLS-SAND & SHOT

Patterson Ind. Tri-Horno colloid mill, 316 S/S, size 10, 40 HP. Tri Horno Corp. colloid mill, 316 S/S, Size: 10, 40 HP

Tri-Homo 5" colloid mill, atalniess steel, 5 HP explosion proof

Kady mill model 2 SH, 100 gallon beich, 40 HP explosion proof. MILLS-PESSLE

Patterson 8'v5' pebble mill, 504 gallon batch, 25 HP explosion prod J.R. Alsing Engineering 3'v4' pebble mill, 02 gel. batch, 3 HP XP. Norton pabble mill, 38' v42'', 126 gallon batch, 5 HP explosion pro Paul O. Abbe 30' da x 36"L, pabble mill, 45 gel. batch, 2 HP TEFC.

Paul O. Abbe 30" da x 36"L, pabble mill, 45 gel. betch, 2HP TEFC.
Paul O. Abbe 2½" x 3½" pebble mill, 45 gel. betch, 10 HP XP.
Steveco 20" x20" pebble mill, 16.5 gellon betch, high stands, 2 HP
U.S. Stoneware 27 gel pebble mill, 17 gellon totel, with 12 HP drive.
Paul O. Abbe 16" x24" pabble mill, 12.5 gellon betch, 11 HP.
Stevco 32" x36" pabble mill, 75 gellon betch, high stands, 5 HP XP.
MILLS—THREE ROLL

MILLS—SAND & STO Chicago Boiner sand mill, model 16P. Chicago Boiner sand mill, model 3 gallon standard. Premier 18 gallon closed heed media mill, 50 HP explosion proof dr Morahouse-Cowles sand mill, model 12-30, closed head, 40 HP XP

Hobart 80 quari mixer, model M-802, 3HP XP, 4 speed, tell pede at Hobart 80 quari mixer, model M-802, 3HP XP, 4 speed, tell pede at Hobart 80 quari mixer, model M-802, 3HP XP, 4 speed, tell pedost

Readco 10 gal. 310 slamloss sleel double arm mixor, 755 HP XP.
MIXERS—DOUBLE RIBBON

Falcon 30 cu. ft. S/S, double, ribbon blender, Jacketed, 7½ HP XP. Readco 10 cu. ft. S/S double ribbon blender, 3 HP.

Kent 60 gelion pony mixer, 71: HPXP, planetary action, 4 lubs.

Patterson 2½°x3* sleel ball mill, 74 gallon batch, 7½ HP XP. Patterson 2½°x3* sleel ball mill, 74 gallon batch, 7½ HP XP. Patterson 2½°x3* steel ball mill, 74 gallon batch, 7½ HP XP. Patterson 2½°x3* steel ball mill, 74 gallon batch, 5 HP XP.

obart 20 quari mixer, model A200, Vs I IP 3 speed.

Paddie Slender, 1/3 cu. ft., carbon steal, 15 HP. MIXERS-PONY

J.H. Day 16"x40" three roll mill, 20 HP explosion proof.
Kent 4"x8" three roll mill, 34 HP explosion proof.
Kent 4"x8" three roll mill, 34 HP explosion proof.

Micro Pulverizer model 3TH, stirrup swing hammers, 30 HP. Micro Pulverizer model 1SH, stainless steel, attrup awing hemm

Premier 316 S/S collold mill, 10" dis., model KSH, 40 HP.

Morehouse B-1400 stone mill, 20 HP explo-

Machinery Corporation P.O. BOX 348 CMA Ft. Weskington, PA 18034 Talex 6714936 VIDEX UW CALL TODAY: 215-643-2720

MIXERS-STATIONARY

OVENS-GAS

Patterson Unipower, 10 HP TEFC, 39 RPM. Patterson Unipower, 71/2 HP TEFC, 28 RPM.

OVENS-ELECT HIG Slue M2" 124" x46" Interior, 315deg, C Slue M2S "Wx38" Hx 20" OSS Interior, 650 deg, F. Despatch 37%" Wx 37%" Hx 25" Ointerior, 850 deg, F. PUMPS-CENTRIFUGAL, 8/S Transis I Marian 2" + 15" SIS consistent with Marian

Trench & Merine 2" x 114" S/S centrifugel pump, 1HP TEFC VS. PUMPS-POSITIVE DISPLACEMENT

Viking 3", model LL4124R, pressure relief valve, 3 HP explosion proof. Viking 2", model K 74288, pressure relief, 5 HP explosion proof. PUMPS – VACUUM

lokes model 612G MICROVAV vacuum pump, 500 CTM, 25 HP.

Kinney vacuum pump.

REACTOR—STAINLESS STEEL
316 S/S reactor, 300 get., 14.7/14.7 PSI, 3 HP explosion proof.
Petterson Foundry 50 gallon, 318 S/S reactor, 100/30 PSI, 2 HP.
Expert 75 gallon, 304 stainless steel reactor, 275/15 PSI, 3 HP XP VS.
Expert 75 gallon, 304 stainless steel reactor, 275/15 PSI, 3 HP XP VS.
SIFTERS/SEPARATORS
Gump 318 S/S reactor, allbar model CR-22, 381 et a. 3448, septien.

Gump 316 S/S pressure ailter, model CP-32, 38" da., 14HP, senitary.

Imperial 1,000 gallon carbon steel mixing tank with SHP XP 46 RPM

imperial 1,000 gallon carbon ateel mixing tank with 5 HP XP 46 RPM

Patterson 650 gallon carbon ateel mixing tank with 6 HP XP 300 RPM

6.000 gallon S/S mbdng tank, closed top, consbottom, 14 HP 5.76 RPM.
Alloy Febricators 7.500 gal., 316 S/S tank, 10" da.x 12"8" deep, 20 HP.
Alloy Febricators 7.500 gal., 318 S/S tank, 10" da.x 12"8" deep, 15 HP.
Alloy Febricators 7.500 gal., 318 S/S tank, 10" da.x 12"8" deep, 15 HP.
Alloy Febricators 4.000 gal., 318 S/S tank, 10" da.x 12"8" deep, 15 HP.
TAN 'S—STAINLESS ST. STORAGE
Charge Surrall S/S 6.000 ast Individual Intercent tank 6" dia.x 10"1

Cherry SurrallS/S, 6,000 gal., horizontal storege tenk, 6' dle. x 10'1. Alloy Fabricators 7,500 gal., 316S/S, 10' dle. x 12'6' deep. UNSCRAMBLER

Atlas Weether-Ometer model XW-WR, auto humidity, chart recorder

Alles Weether-Ometer model XW-R, auto humidity control, char-

Schmulz Mig. Co., Inc. top grain oltaei printer, model Ct.124, 24" wide.

SWBCO 60" dla. C/S, single dack, open top, 21/2 HP. TANKS-CARBON STEEL, MIXING

TANKS-JACKE I EU
Groen 430 gallon, 304 S/Stenk, 15 PSI jeckel.
Nooter Mig. Co. 160 gellon 304 S/S tank, jackled, 44 HP.
United Utensie 100 gal., 316 S/B tank, 150 PSI jeckel.
TANKS-STAINLESS ST., MIXING

Northern Conveyor 6 lane unacrambler, 29" wide. WEATHER-OMETER

TANKS-JACKETED

MISCELLANEOUS

Grieve gas oven, max, temp. 850 deg. F, Interior 38"W x 28""H x 20"0.

OVENS-ELECTRIC

FILTERS SPARKLER 352 sq. ft. S/S Mod V-R-32 SPARKLER 18-D-5 S/S Vert. Tank Press Leaf 60# 2.5'x 13' S/S Vscuum Belt Filter 18",24",36",42"P/F Presses C.I. Poly or S/S SPARKLER HRC 150, 200 S/S Horiz. Press. Leal 35,50,150,300 sq.ft. Press Leel S/S

TANKS/REACTORS 29,000 GAL. HORIZ. 318SS Tenks 40# (2) 300 Gel. Groen S/8 Kettle (ikt)

1,200 GAL T-316 SS REACTOR 30 75/# JKT. w/AOIT. 12000 Gel. Horiz SS w/Top Agit, OH. Hds. 2900 Gel. 250#/FV-S5#//kL. 15HP 3D,50,150 Gel. S/S Reectors 100#/75# 18,000 gel. 304 \$8 vert. w/coll & agii.

MISC. SPECIALS PFAUDLER 1500 gal. S/S Reactor M/G 1000, GPH HOMOG.

65 HP MODULATIC Sollar 250 psi Gae Fired SIMPSON 11/2F, 3F, S/S MIX MULLERS 8'6"x 78' Autoclave 150# w/track QOD -FITZ Mills 8/8 D, D12, FAS012 & Chilsonstors 7'x(eny length) AUTOCLAVES 100# Cods W/Treck -100-10,000 eq.ft. Ht./Exchr's S/S & C/S 150 cu. ft. P/K Twin Shell etl. 10 HP -100-10,000 gsl. G/L. Tsnks & Reactors DAY 100 gal. S/S dbl. erm sigme jkt. vsc.

SAVE PLANT SITE SPECIALS

VIDEX WAREHOUSE SPECIAL Poly con Reactor/Mixer Call for Details

SPECIALS
35"x72" Bird heriz, solid bowl cent, ett.
8teneteel 8x50 Rot Hot Air Dryer w/Burner, c/8
50 gal. J.H. Day Pony Mixer Steel W/Cen
2000 gal. Pfeutiler G/L reactor w/egit.
Bird 40x80 316 3/8 Cent. 114:1100 HP
Feine. 5"x7" 8/8 Rot Vee filter
156 cu. ft. Muneen filtxer 8/8 jktd.
12,000 gal Frp Vert, Tanke (2)
1000 gal. Plautder G/L reactor 76#/75# w/egit.
Bird 18x28 8/8 Contour Sowl Centrifuge
P/S6'x 46:88 CONVEYOR DRYER;
22,600 Gal. Tank/Sito S5 Vert 12 ft. e 24ft.

JUST PURCHASED

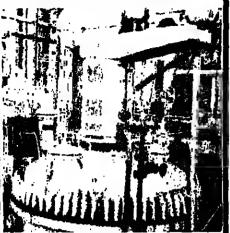
SAVE

Niegers 24 sq. ft. Press. ie.af filter 5/5
200 gst. 3/5 reactor 180#/150# w/agit.
206 gst S\$ vacuum receiver
Foremost HD-6 Granulatore 14x16 (3)
108", 50" 54", 41", 32", extrusion sheet lines
Mirc-Pulv 1 6H 35 5 HP w/acraw lead
M/G Homogenizer 250 M 12-8 TBS (8000 PB)
Pattarson, Abbe 3,5 cu. ft. 5/8 db. cone vac. dryers
Stokes 73 sq. ft. 6/6 vac. shell dryer
15, 50, 150 GAL. \$TL. D/ARM MIXER JKT.
Pleudler 10,000 gst. GJr. Reactor
250 gst. 5/8 Reactor 30# 1/25# jktd. w/agit WE HAVE MANY MORE ITEMS—LET US KNOW WHAT YOU NEED

CHEMICALMARKETING REPORTER:

CHEMICAL MARKETING REPORTER

October 20, 1946



KETTLES-REACTORS, SS

30,000 gal. 30458 farmoniora, 14' x 24', 25 psi/1 colls, 200 HP agit. (4) 5,000 gal. 30458, atm. int., 75 pei jkt., agit. 4,100 gal. 30458 kattle, 15 pei jkt., 5 HP agit. 3,500 gal. 31658 kattle, 20 pei jkt., 7 ½ HP agit. (2) 2,500 pal. 30485 reactor, 75 pal/FY htt., 190 pal jkt. 1,500 gal. 30485 kattles, jktd., 5 HP egit. (3) 1,500 gal. Plaudier 316 USS reactor, FV/190 pal, 5 HP Agit. (1,150 gal. 304SS reactor, 15 pai int., 25 pai jkt., 5 HP agi 900 gal. 304SS reactor, 75 pai/FV int., 150 pai jkt., agit. 600 gal, 3048S reactor, 300 pel int., 76 pel jkt., colle (3) 500 gal, 3048S reactor, 160 pel int., 150 pel jkt., 5 HP ag 300 gal. 316SS reactor, 76 pet/FV int., 60 pet jkt. 50)... 31688 and 30488 reactors and kettles from gation to 400 gallon... call for list.

BIG PFAUDLER 316SS REACTORS

(3) 15,000 gal. Plaudior, 31698, 12'6"x 15', 100 pel, 200 pel ikt. Aqil (4) 10,000 get. Plaudier, 31698, 11'6"x 12'4", 100 psl, 190 psl, jkt. Agit.

REACTORS-GLASS

2 gal. Pfaudier, 750 pal/FV, 700 pel jkt. 20 gal. Pfaudier, 35 pal, 100 pel jkt., agit. (2) 20 gal. Pfaudier, 35 pai, 100 pai jht., agit. (2)
30 gal. Pfaudier, jktd.
50 gal. Pfaudier, 25 pai, 103 pai jkt.
50 gal. Pfaudier, 25 pai, 103 pai jkt., agit., 1975
100 gal. Pfaudier, 25 pai, 90 gal jkt., agit.
150 gal. Pfaudier, 25 pai/vac., 90 pai jkt., agit.
150 gal. Pfaudier, 25 pai/vac., 90 pai jkt., agit.
300 gal. Graudier, 100 pai/vac., 90 pai jkt., vari-drive agit.
500 gal. Pfaudier, 100 pai/vac., 105 pai jkt., 5 HP agit.
1,000 gal. Pfaudier, 25 pai, 85 pai jkt., 5 TW agit.
1,000 gal. Pfaudier, 75 pai/vac., 90 pai jkt., 10 HP agit.
1,500 gal. Pfaudier, 100 pai/vac., 90 pai jkt., 1981,
1,500 gal. Pfaudier, 100 pai/vac., 90 pai jkt., 25 HP agit.
2,000 gal. Pfaudier, 100 pai/vac., 90 pai jkt., 1981,
1,500 gal. Pfaudier, 100 pai/vac., 90 pai jkt., 25 HP agit.
2,500 gal. Pfaudier, 150 pai, 90 pai jkt., 8TW6 agit.

NEW LIQUIDATION! CHEMICAL/POLYMER PLANT....ILLINOIS ..BUY BEFORE REMOVAL AND SAVEII

Bird 32'x 50", centrifuges, 316SS, contour (2) Welex 8" Extruder, 700 HP, 30:1 L/D (5) Welex 6" Extruder, 400 HP, 30:1 L/D (2) Consir 24" pelletizer, 40 HP (2) Renneberg 5'x 25' 304 SS rot, hot all

drvers, 10 HP, (3) Sweco & Keson 60" screens, SS (2)

K-Tron 7000#/hr. twin screw volumetric feeder, SS, (5) Pfeudier 1,500 gal. \$18L SS reacior, FV/-180 psi' 5 HP egit (2)

Pfeudler 10,000 gal. 316L SS reactor, 150 psi/FV Int., 180 psi jkl., hyd egit (4) Worth. Plant air comp., 323 CFM @ 125 psi 75 HP. Model #4-88-2 (2)

PHONE (609) 267-1600

DRYERS

Slaw-Knox 6'4"x 40' SS vac. dryer, 500 cu. ft. Blaw Knox 36"s 20" yac. dryer 316L SS, 72 cu. ft. Slaw Knox 66"x 36" vac. dryer, nickal Mathia 24"x48" flaker, chrome plated Sandvik 48"x24" SS belt flaker, UNUSED Bargent 60" x 45" SS conveyor dryer Stokes S" x 11" dram flaker Slaw Knox 32" x 90" dbl. drum Suffovak 42" x 120" dbl. drum, 160 pel Aeromatic #ST-5 fluid bed dryer, 5/10 KG Witte 36" x 10' fluid bed, SS, sanit,-cools Stokes 38 sq. ft. Lyophilizer freeze-dry Reanaberg 36" x 20" rotary dryer, 316 SS Remeberg 5'x 25' 3049\$ rot, hot air drysrs, w/cyclons, etc. [2] 96" x 50" Louisvilla SS rotary dryer 10' x t00' GATX rot. steam tube dryers, 140 pel (4) Vysamont #VTL-24 Turbo-tray diryer, 304SS P-K 6 cu. ft. vac. dryer, 3045S P-K 20 cu. ft. vac. dryer, 304L 88 (2) Abbe 30 cu. ft. 304SS vac. dryer Devine 11D cu. ft. 304 \$5 vac. dryer Pfaydler 165 Cu. ft. glass-steel vac. dryers (2) Abbe 325 cu. ft. 3168S vac. dryer Devine 370 cu. ft. 3168S vac. dryer Device 564 sq. ft. vac. shell dryer Niro 30" SS apray dryer Turbulaire 46" x ?' apray dryer Bowen 72" spray dryer, 88 Bowen 96" spray dryer, 83

FILTERS-VACUUM

36" x 1" Dorr-Otiver, Riber glass G sq. ft.
36" x 1" Ametek, 316 SS, S sq. ft.
40" x 3" Bird-Young, SS, 48 sq. ft.
4" x 16" Eirnco, 316SS, 64 sq. ft., horiz.
5" x 3" Ametek, SS, 55 sq. ft.
6" x 4" Eirnco, "Eirncomet" polypropylene
6" x 5" Eirnco, SS, 200 sq. ft., pre-coat
6" x 10" Dorr-Other, 200 sq. ft., pre-coat 8' x 10' Dorr-Oilver, 250 sq. ft., 31693, precost 5' x 12' Elmco, 31695, precost, 300 sq. ft., (3) 6' x 14' Dorr-Oilver, 31695, precost, 350 sq. ft. (2) 10' x 10' Elmco, 31695, precost, 314 sq. ft. 11'6"x t 5' Elmeo, 88 contacts 12' x 14' Komline, 30488, 525 sq. ft., flexibelt disch. (2) 45' dia. Elmco tilting pan. vac. fifter, 316 SS

Doir-Offver O' x 12' precoal rolary vacuum hillero, 31055 controle ... Price's Stashed, BIO SAVRIGS!

FIL TERS—IPPESSURE
12 sq. ft. Amaiek /Niegara #12, SS
54 sq. ft. Funda, SS, jkt.
65 sq. ft. Artisam "Dynamic" filter/wesher, SS [2)
140 sq. ft. Niegara # 36-140 315 SS (2)
600 sq. ft. U.S. Autojet 316SS, sanit.
1000 sq. ft. U.S. Autojet #1000, 304SS
30" Sarar Silker west #1000.

30" Sperry filter press, 11 cu. ft. 36" Shriver filter press, 546 sq. ft., hydraulic 42" Shriver filter press, 777 sq. ft., hydraulic 48" Shriver ALP recessed filter press, SS, 276 sq. ft. 48" Clow, polypropylene recessed,1500 sq. ft.

PULVERIZERS

Mikro #5MA atomizer, 5 HP Mikro #6MA atomizer, SS Mikro #2DH pulv., SS, 5 HP Mikro #2DH pulv., SS, 5 HP
Paliman #REF6 pulv., 100 HP
Paliman #PP6 pulv., 50 / 75 HP
Abbe porcelain pebble mils... 38" x42", 36" x48",
42" x60", 48" x60", 60" x48" | 77
Raymond 50" 5-roller hi-eide mill, 1981, UNUSED
Raymond #8058 Hi-eide roller mills, dbl. whizzer | 2)
Raymond #7361 2 Hi-eide roller mill, dbl. whizzer

NEW LIQUIDATION DRY DETERGENT MFG. EQUIP. ..NORTH JERSEY!

5-Kielesier dust collectors: 2000, 1 400, 535 sq. ft. 5-Cleveland 120 cu. ft ribbon blenders, 60 HP 5-50" C/C steel bucket elevators C-Kleissiar beg type dust collectors

R-Box Filling Lines / 150, 120 Soxes / Min.

I-J.H.Day 200 gal. a igma blada mixer, jktd., 40 HP

R-Moyno Pump # IL8880, 8HP.

2-FMC-Stokes form, fill 8 seal units

2-Eriax #828 vibratory feeder, SS, 60"x 18";

UNISED

1-Hesser volumetric powder carton filler. 1-Hercules drum mixer 1-200 gal. 85 tank, jkt. & egit.





CENTRIFUGES
Sharples P-5400 D-Center, 316SS, Cerbide Illes, lets [2]
Sharples P-3400 D-center, 316SS, tiles [2] Sherples P-5000 D-canter, 31688 Sharples P-680 D-canter, 31688, back drive Bird 12" x 30", 31855, December, 20 HP 9ird 12" x 26", 31865, December (3) 9ird 13" x 42" December, steel, 10/30 Bird 24" x 38" Decanter, 30435, contor 3ird 24" x 38" Decanter, 31655, contour (3) Bird 24" x 80" December, steel Sird 24" x 86" December, SS, 126 HP Sird 24"x 98" decenter, 30455, carbide

Bird 32" x 50" December, Nonel, contour (2) Sird 32" x 50" December, 30456, contour DeLevel NX214-316 December, 30458, 20 HP (2) DeLaval NX214-318 Decanter, 30458, 20 nt? (2)
Sharples AS18V "Super," SS (5)
Sharples AS28V "Super," SS
DeLaval SRPX-213-30, 3185S separator/desinders (3)
Westfalls SAMH15037, Desinder/Separator, 31685
Westfalls SA14-35-076 3-way separator, 31686
Krupp 10" pusher, 31688, 15 HP
Seker-Perkins 19" pusher, 30488, 40 HP Sharplas 48" T-1800 euto-basket, 100 HP
Tolhurat 48" Batchmaster, rubber Baed, 30 HP
Sharplas 48" Tornado-Matic, 8S, 25 HP
Delaval 48" Merk 111, 31668 hyd.
CENTRIFUGE PARTS... Sharplas, Bird, DeLaval, etc.

EVAPORATORS

2.4 sq. ft. Rodney-Hunt SS, 3 HP 21 sq. ft. Rodney-Hunt Turbafilm #4, SS 37 sq. ft. Rodney-Hunt, 304 SS, Turbafilm 100 sq. ft. Pfaudler, 3151. SS, wiped film 600 sq. ft. Boslin-Birmingham dbl. effect, S 54 sq. ft. Bullovsk dbl. affect, SS 1683 sq. ft. Roger dbl. effect, SS Swenson 316SS cnitauous crystallizer, 9"

TANKS & VESSELS 30,000 gal., 304SS, 14' x 24', cells, 200 HP agil. (4) 20,000 gal., 304SS, 12' x 24' (2) 17,000 gal., 304SS, 11' x 24' (3

17,000 gal., 316LSS, 14'x 13', Agit. (2 12,000 gal., 316LSS, 12'x 14', Agit. [5 10,500 gal., 316L SS, 8' x 25' 10,400 gal., 304SS, 10'8'' x 15', agit. 8,000 gal., 304SS, 10'8'' x 12' 5,000 gal., 304SS, 9'x9', 26 HP agit. 3,500 gal., 304SS, 8'x9' 3,000 gal., 304SS, 7'x 10', agit.

MIXERS, BLENDERS

3.5 cu. ft. Henschel #FM15D, 17/20 KW 11.5 cu. ft. Henschel #115JSS, 92/45 HP 13.7 cu. ft. Lodigs #W600/K1200, mlx/cool cemb. 20 cu. ft. P-K twin shell SS 20 cu. ft. P-K twin shell SS 35 cu. ft. Dey Nouta, #NBX350, 85 52 cu. ft. Neuta 30435 mixer (2) 50 cu. ft. Gemco ,TW SH, Sanit, SS 69 cu. ft. Gemco ,TW SH, Sanit, SS 70 cu. ft. Day Neuta, #N6700, 10 HP 75 cu. ft. Day Neuta, SS, jktd. 75 cu. ft. Day Neuta, SS, jktd. 93 cu. ft. Day Neuta, SS, 1981 110 cv. ft. J.H. Day, dbl. ribbon, 31888 120 cu. ft. Cleveland ribbon blenders (5) 144 cu. ft. 304SS dbl. ribbon blender, 30 HP 169 cs. ft. Pfaudier, ebt. cone, glass steel jkid., vacuum 200 cu. ft. Young, ribbon, SS 316 cu. ft. Sprout-Weidron ribbon biender, SS, jktd.



(2) Sharples P3400 D-Center, 316SS, back drive, little use since robuilding!

EQUIPMENT CO. INC.

WORLD HEADQUARTERS

Box "O", Halnesport, New Jersey 08036 Phone: (609) 267-1600 ■ Cable "PERI" ■ Telex 84-5397

NEW & UNUSED PROCESS EQUIP., 1982. IN ORIGINAL PACKING ... SOUTH CAROLINA. CALL Phone (609) 267-1600

BALERS, Dispozopek #D600 belers, (2) UAG PACKER, Howe-Richerdson #G-S-17 semi-

automatic bagging system SS centects BINS, 304L SS contects, 1300 cu.ft./9720 gel. CENTRIFUGE, Bird 24"x96", 304SS, Model 15 eatld bowl continuous, 10 deg. contour bowl Tungeten cerbide tiles on conveyor, 150 HP CHLORINATION SYSTEM, Wellece & Tiernen COLUMN, 46" dle. x 15'9", 304SS CYCLONE, DuCon Model 700/175 30488 high

efficiency cyclones, size 210, Type YM (8) DRYERS, Nooter 4' x 14" rotery vac. dryer, 316. SS shell and jecket, incoloy ribbon agt. ASME 100 psi/FV ini. & jecket, 100 HP

FEEDERS, Acrison grevimetric weigh feeder Model 403-15,000-3,000-BDF-4, 30488 FURNACE, C.E Air Co. "Cor-Pek" thermo ondizers, direct ges fired

MIXER. Air mix blender eystem, Koppers-Spro Weldron #36-50, 500 cu.ft., 30495 MIXERS, Webb, 59" W x 15'L twin eheft padd mixers or pug mills, 304SS contacts, (2) PACKAGING SYSTEM, deelgn to fill bage, pele tize, ehrink wrep, etc. eutometed system. PULVERIZERS, Mikro #4TH pulverizers, 125 M

"MOTHER LAND"... POLYBRED COMES MINDING PLANT. SOMETERS I. N.J. ... The the Seed to A C "ACTION 为ARE!! 经产业的证据证据 ACTANES OF OR SITEM CARTING T. R.A. OR DETAILS, CALL MARK

drive. (15)

(2) Muneon 300 cu.ft. blenders, 104" dis #TS-300GB, pkgd. Munson 110 cu.ft. blender, 90" di

15HAFI @ (409) 267-1600

#700/110, pkgd. (2) Muneon 90 cu.ft. blendere, 80" #7TS90, pkgd.

2) 400 cu.ft. Gruendler ribbon blender (2) 215 cu.ft. Clevelend ribbon blenders [2] Eirich 10' die. Inteneive mix mullen motorized pen and muliers (2) Komline dbl. cone blenders; 320 cu. (10' dle.), 69 cu.ft. (6' dls.)

(3) Gruendler hemmermille, 150 HP, 1980 2) Gruendler hemmermille, 100 HP, 60 HP 1) Mikro #8D etomizer pulverizer, 30 H 1) Mikro #4TH pulverizer, 50 HP 2) Saw tooth brakers/cluehers

2| St. Regle baggers "Pueh-Pull" relicer unloading system 25) Flexkleen, Dustex, etc., bag type du

collectors 2) Box sifters) Handling eyetem w/(2) 2000 lbs. elek

lors, 80' powered roller conveyor, Mary ALSO...leboretory with leb apperatus, bles, equipment, etc.; motor colling center unita; Gerdner-Denver compressor; etc., etc.

CALL FOR FREE CATALOG (617) 679-1901

JLM

BLENDENS & MIAENS
-180 get Sigme Blede Mixer; 0.5, jktd.
-Readco Sigme Blede Mixer; 10 get 38 Ouel Level (Like New)
-Readco 5 get, 85 jktd. vec. mixer 5 HP
-Rose 10 get, Pienetary Mixer 88
-Baker Perkine 300 get, Sigme Blede jktd. vec. mixer
-Readco 5 get, 98 Sigme mixer, jktd.
-Patierson Kelly 1800 cu. ft. CS blender 78 HP
-Paul C. Abbe 90 cu.ft. 38/senft, jktd. vec. blender 50 HP
-Routa Mixer 70 cu.ft. 38 10 HP (2)
-Bevine 100 cu.ft. Dola Cone Blender, C/3
-Baker Perkine 180 get. C/5 jktd vec. flusher

BLENDERS & MIXERS

CENTRIFUGES Bird Centifuge C8 40" x 50" Bolid Bowl widnive
Bird Centrifuge C8 18" x28" Contour Bowl (UNUBED)
-Bird 36" x50" 34785 Contour Sowil
-Sharples 12" 88 Lab Modal/Brighton Lab
-Bharples P-5000 decenter 50 100 HP

DRYERS DRYEPS

Jelliey Huld Bed Dryers 2: 120 Ss. (2) Available

Plauder Conicel vec. dryer G/L 72 cu. it. complate system

0 & Hotary vac. dryer, 315 SS, 2'x 7'

Genco SS 1 cu. it. dole., cons vac. dryer

Petterson Kelly 3 cu.ft. brin shell vec dryer SS

Stokas vac shell dryers 48,9 sq. it. (7)

Plauder 25 cu.ft. G/L dbt. cons vac. dryer

Standard Hervey 4'x30' Rotary dryer SS

Sowen Spray Oryers 7'v' & S' SS

Aeromstic fluid bed S.8. dryer Model 100ST 20

Patterson Kelley 8 cu.ft. SS Conicel Vac Oryer

Stokes 5'x30' Rotary Vac Oryer, Mitd, SS

Gampo dbt. cone vac dryer 10 cu. ft. SS

Patterson Kelley Twin Shell vac. dryer 75 cu. ft.

FILTERS

Eimco 4x12 Eeft Filter
Spenkier Filter Mdi # 16:0-4 98 jkt.) 33012/88 8-6
-U.S. Autojel filter 88 50 ag. ft.
-Ents! 12" 85 filter press
-Herouler Filter 600 ag.ft. 315 88
-Brd (Plannevia) Filter 88, 12" wide x 17' long
-Speny 42" Plypro Filter Press 48 Chambers
-Shfrer 38"ALP 818-88, 41,48 Chambers (2)
-Evirex 38 Rotary filters 8 x 8

GRINDERS & MILLS

Sweco Separator /48"/30" 24" 18" SS

THIS IS ONLY PARTIAL LISTING

NEW ARRIVALS

-Chromolox Hot Oil Heaters 20 & 40 KW complete system UNUSED -Petterson fieldy \$3 cs. N. twin shell blender little \$\$ w/lnt. bar -7500 gel. \$18 SS mix tank 30 pel egit. (3) -J. H. Day 350 gsl. Sigma mixer vac. (ktd. 60 HP (3) -Mateer Filler Model No. 33A Auger Type, \$8/sanit -Patterson Kelly 40 cu. ft. Twin Shell Blender 88 with Liquid

Solid Bar

- 180 cu. ft. Ocuble Corte Blender

- Petterson Kelley Twin Shall 1 cu. ft. vac. processor 88

- Alpine Belve Model # A-32-100 LS

- 300 gal. 35 Dispersion Tank (50)

- 800 gal. 318 SS Reactor 42/PSI

- Fitzpetrick Fluid Bed Oryer 88 Model # 78 Leb

- Reliz disintegator 88 8 H.P. 868 R.P.M.

- Autoclava 200 gal. 89 115/350 -Funda Pilter 4' dla., 88, ktd. w/20 HP Driva -Aeromatic Fiuti Bed Dryer Lab Model #87-18 -Aerometic Spray Dryer Lab -Colloid Mill 6 HP 88

-corota Mis o MP SS
-Strong Scott Rotery Vac Dryer, SS, 3x12 Salidaire
-SS Keities 400, 300, 300, 150 (25)
-Saker Perkins 160 gal. CS jktd. Sigma Blade Mixor
-S00 gal. SS jktd. agli. rescior low pressure (2)
-Artisen I sa, the wiped film SS complais system
-Ross 15 gal. SS jktd. mixtuder 7 vs MP Midl. AMK 13
-Micro Atomizer SS SMP XPMdl. #3MA

RIBBON BLENDER -Abbe 40 cu. ft. SS cied ribbon blender -Strong-Scatt 200 cu.ft. CS ribbon blender -J.H. Day 40 cu.ft. Ribbon Blender, S/S (3)

PRESSURE LEAF FILTERS

-750 eq.ft. il.8. Autojet, Mdl #750, 318 S8

-Pronto Filter 98 30° Dia, 450 pai
-Industrial Filter 109 aq.ft. Type 122 iD 31 Model OMD
-Enzinger last filter S8 360 sq.ft.

REACTORS

REACTORS
-4000 gal. 318 S8 reactor wipipe coll (4)
-Pfleuder 2000 gal. ikto reactor 150 psi/78 psi
-Nerwelk 3000 & 750 gal. \$8 reactor dimple jktd FV/50
-2503 gal. 98 reactor 20/50 psi
-Pleudler 9200 gal G/L Reactor 90/90 psi Unusad
-Downington 1500 gal. Monel Clad reactor 55/70 psi
-Glescote 3000 gel G/L Reactor, 90/100 psi
-13,800 gal. 304 Elic Dim., Jktd., Reactor, 30/100 psi
-Fleudler 550 gal. G/L iktd. yac, reactor Plaudier 500 gal, Q/L iktd. vac. reacto

J.Little Mercer Co., Inc.

254 Hombine Rd., Rehoboth, MA 02769 617-679-1901

LIQUIDATION 1316 S/STANKS-VERTICAL, ON LEGS

10 diex 12'8" deep & dish,7,500 gel., 20 HP Jurbins 10 dex 12'6" deep & dish 7.500 gsl., 15 HP (urbins When 17th deep & client, 7,500 crail, 15 HF turbin.c. il dat 176" deep & dish, 7,500 gal. no mixer 18' dax 6'6" deep & dish, 4,000 gal 10 HP turbine

STUART EQUIPMENT CO. P.O. 80x 469 North Chicago, 1L 60064 312:473-4500

wabash sells & Rents **BOILERS & DIESEL GENERATORS**

immediate Dalivery On Call 24 hours (312) 541-5600

wabash

Wabash Power Equipment Company 444 Carpenier Asenus PO Bos C. Wheeling Binois 80090 Phone 3177 841-5600 TELEX 78-2566

JUST PURCHASED
PATTERSON-KELLEY 2 GU. ft.
TWIN SHELL BLENDER, 90 # MAX. DEN.
STAINLESS STEEL WIBAR cu. It Abbe, S.S. willi Jkt

MDER-11 cu. II. Littleford Model M-5-0, S.S. ENDER-20 cu. II. Palleraon-Kollay Twin Shell, C/S UGE-46"x30"Western States, Perf, S.S316 GE-AS-IENF Shamles, 3HP, 15,000 RPM i0tonCamer, 1906D7-5-3 Hermetlo SOR-400 CFM @ 100 PSI Fuller C-80-8011, 100HP 1-600 CFM @ 125 PSI Clark ICA-6, 150 HP

Vertical 304 S.S. 25 PSI UNUSEO (2)

on vencal AP 5.5. 25 PSI UNU SECIL 38. Horizontal S.S. on saddles UNP 150 CFM @ 25" Nosh H. 6, 25 HP rebuil UNP 150 CFM @ 24" Nosh H. 10, 125 HP

EQUIPMENT CO. INC.
P.O. Box 3660, Monthille, N.J. 07045
12011 235-9770 -1-2-3 • YELEX 136357

cu. It. Patterson-Keiley Conical S.S. Ricu. It. Economy Conical CIS SATOR-6.54 sq. ft. Rodney Hunt, 316 S.S. w. Condense 156 13 3nd Young 304ELC, Ret Vac 17.7 3n Shriver & Sperry units 18.51gal, Mueller S.S. with Oouble Motion Agil. SH 21H ADM ### ATM Micro Pulvenzers

III. ATM Micro Pulvenzers

III. ATM Micro Pulvenzers

III. STORE (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550 # (4)

A: 750 gal. grass (1. P.K. V-Type S.S. Jkt. Vac. 550

FIRST SERVED....CALL (609) 267-180

Tanks: 250-1400 Gal. storage & mixing, 8/8 & fiberglase 5000 Gal. 364 8/8 atorage lank, restical, closed, dished hds. (2) Richmond 3000 Gal. 8/8 Reactors, 60/40 P81, 60 HP2-Spd. Richmond 3000 Gal. 8/8 Reactors, 60/40 P81, 20 HP. (3) Pfeudier 30 Gal. 8/8 Reactors, 60/90 P81, 114 HP XP V/S. Heccuke 500 Sq. Pt. "Roto-les" Filter, 316 8/8, 60 P81, Jacobson 80/8F-11 "Universal" Hammer Mil, 100 HP. (2) Entoleter Type ElM "Centimil", 4" Dia., 318 3/8, 180 HP. Simpson "Rolex" model 651 Sifter, 318 8/8, shigle deck. Filter Scrier Dryer, 18" Dia., 200 L., G/8, Jist brough. Chromalox 20 KW Hot Oil Unit (ALL XP) Sterling 12 KW Hot Oil Unit (ALL XP) Sterling 12 KW Hot Oil Unit (ALL XP) Sterling 12 KW Hot CR Unit. Hockmayer 50/25 HP High Speed Disperser 8/8, XP \$2 Spd. (3) Sussmeyer model 57/8 Sand Mills, 40 & 2 Sh P XP. Hotehous-Covina 12-63 & 10-25 Sand Mills, 40 & 2 Sh P XP. Patterson Steel Ball Mills, 6'x 8' & 8'x 8' and other sizes. Abba 4 Yu Ti 'Continuous Steel Ball Mills, 6'x 8' & 8'x 8' and 18' x 2''+'up. Petterson & Abbe Ceramio-Lined Pabbie Mills, from 16'x 2''+'up.

A-1 CHEMICAL EQUIPMENT CO 59 EAST 21st STREET CHICAGO, IL 60616 (312) 842-2200

SELECT used machinery

LARGE BIRDS

(12) 40" x 60" Bird decanter, 316 S/St, 15/3 deg. contour, 5" pitch, aingle lead conveyora w/Stellite hard aurfacing, 80:1 gearbox, 100 HP V-belt main motor drive. New late 60's. Excellent condition. Limited Use. Immediately Available from Stock.

(2) 32" x 50" Bird decanter, 316 S/ST, 15/3 deg. contour, 5" pitch, single lead conveyors w/Stellite hard surfacing, 80:1 gearbox, 75 HP V-belt drive. Excellent condition. Limited Uae. immediately Available from Stock.

WYSSMONT TURBO DRYER

Stainless Steel, mdl L-12, steam heated, 48" dia S/ST trays & sides w/heater controls.

VACUUM DOUBLE DRUM

DRYERS (2) Blsw Knox dssigned double drum dryers, 18" x 48" & 36" x 120", chrome plated, esch w/-vscuum chambera & vscuum pump package. Excellent condition. Resdy to Ship.

WYSSMONT DRYER

Model N-22, 8' dla trays 22 high, with stainless steel contact parts. May be shipped in one piece. Steam heated.

ROTARY FILTERS

Ametek 8' x 12' rotery w/belt discharge, 318 stsinless, new 1974 - Excellent condition. -Ametek 5"x 81/2' rotary w/belt discharge, 316 stsinless. New 1974 - Excellent condition.

STAINLESS DRYER

Louieville stainless steel steam tube drysr, 8' dis x 40', stsinless steel clad shelf w/stsinless ateal steem tubes.

Also Avallable:

Roto-Louvre mdl 900-32, 9' dla x 32' long, steam heated, 30 HP motor, all fane & Flex-Clean dust collector.

CRYSTALLIZER

Titanium contact parts, 8000 ibs p/hr capacity. New 1976. Complete and atill Installed.

RAYMOND ROLLER MILLS

* * * Just Purchased * * * (3) Raymond high elde roller mills model 5057, double whizzer separator, fan; feeder, cyclone, duct work & bucket elevator.

Sihi vacuum pump. Excellent condition.

LARGE SHARPLES SUPER DECANTERS

(2) Model P8100 Sherplas Super Dacenter, 316 S/ST, carbide tiles, 250 HP main drive, 126:1 gearbox w/backdrive. New 1979. Complete. Excellent Con-

FLUID BED DRYER

Jeffrey fluid bed dryer, 5' x 20' 304 sanitary construction, complete installation including fana, duet collector, S/ST scrubber &

controls. **EXCELLENT CONDITION**

INDUSTRIAL FILTERS

(2) Industrial Filter Sysyteme, 600 200 sq. ft. each, dry cake discherge, vulcanized rubber lined ank w/316 S/ST filter lesves. completely automated w/computar controlled actuators. Like New Condition

RESIN REACTOR

(1) 8500 gallon 316 S/Tt reactor, 30 PSI /full vacuum Internal. 15 PSi jecket, 45 PSI 316 S/ST colls, 10/15 HP 2 epeed turbine agitetor, S/S7 overheed con-denser. New 1977, Still Installed. Excellent condition.

STRONG SCOTT SOLIDAIRE DRYERS

Modei SJS-24-16, 24" dia x 16 long, 304 atalniesa, dimple jacket 50 HP vari drive. Model SJS-20X16, 20" dla x16 long, 316 stainless steel, jacketed. Model SJS8X52, 8" dia x 52" long stainless, jacketed, pilot size.

JUST PURCHASED

acket & 40 HP drive

Stainless steel mdl SJS-36-22 w/-

Link Beit Roto-Louvre Dryer10'3' x 36": long, mdl #1003-36, complete system incl 50 HP drive, firebox w/20,000,000 BTU gas burner, all fans, duct work & controls, muiti-cyclone collector & Siy 30,000 CFM baghouse. Excellent Condition -Still Installed. We will load - Call for FOB Pricing

AMETEK ROTARY PRECOAT FILTERS

(1) 2' x 3', T304 sanitary stainless, complete station w/vacuum receiver, pump, mix tank & Nash vacuum pump. Rebuilt. (3) 10' x 16', 316 stainless steel, 100 HP Roots vacuum pumps,

receivers, interconnecting piping, etc. Rebuilt. (1) 3' x 3', atring discharge, 316 stainless, Incl S/ST agitated through, var speed mtr, vari epped dry on drum, 316 stainlees.

MACHINERY and EQUIPMENT CORP.

P.O. Box 7632-0 - San Francisco, CA 94120 all Toll Free 800 227-4544 In California Call 800 792-2975 OR 415-467-3400 Telex 340-212

以下是在建筑的

CHEMICAL MARKETING REPORTER

B

D



PERRY

for



COPY DEADLINE: Wednesdey Noon preceding dete of publication.

RATES/Classified Ads: \$57.75 for 36 words or less; \$9.75 for each additional six words or frection. No displey. First two words printed in bold face type. Non-display solvertisements payeble in edvence, except for contract customers (not subject to egancy commission).

REPLIES: Send replies to classified sds with box numbers to CHEMICAL MARKETING REPORTER, 100 Church St., New York, NY 10007-2694.

INFORMATION: For further claseified advertising information, cell 212/732-9820.

CHEMICALS OFFERED

Glycerias natural USP 99.5 — new drums — low low prices regular supply — svellable from New Jersey/Balti-inore/Houston/West Coast werehouses. Inquire now.

Glycerina, 95 percent, natural, yellow. Glycerine, 99,5 USP, Bulk and Drums Crude Glycerina/all reasonably ams and by-prod ucts. Pis send inquiry/offers to CMR Sox...743.

Phenolic Resins for contact cemant and links. Alkyd reains for paints. Available in container load quantities from Venezuola. Inquiries Invited. Contact Stophanic DoSesa American Petrochemicel Corporation (212) 307

CHEMICALS OFFERED/WANTED

Cham/Mart Corp. will buy all of your surplus or off spec chomicals, plastics, pharmaceuticals and rosins. Current bargain ollorings: 22M lbs. Pontaerithntol Tetrastoarate: Der 067 Resin, 40 dr. Ethornoen T-30; 19M lbs. Kraton D4141; Calcium Acotato, U.S.P. and Galifo Acic. Prompt elficioni Nalionwide service. Chem/Mert Corporetion, 840 N. LaSelle St. Chicago, IL 80610 (312) 787-8800.

CHEMICALS WANTED

Active Suyer of surplus chamicals, pigments, dyeerosms, waxes, plastics ofc. Call toll free t-800-831-3337 or 617-829-6736. Open Polymer Corp. Chamical Ow., 17 industrial Drive, Holden, MA 01520.

Alt Surplus -- Chemicals -- Rosins -- Oils -- Colors Scivents — Physicizers — Speciallies — Intermediates — bought by: Rambach Chamical Co., Inc. 52 Vesey Street, PO 80x 5187, Newark, NJ 07105, Phono: (201)

Cosh Far your surplus chemicals, resins, colors, pheimeceuticals, dyes, other raw malerials, by products, wastes, ros-fues and off-spec materials. Morgan Chemicals Inc., 5500 Main Street, Williamsville, NY 04221 (716) 632-4000;

Reoliza Top Value from the sale of your surplus Chemicals. We truy surplus Chemicels. Plastics, Resins, Waxes etc. Bonmar Chemical Co., P.O. Sox 494, Fair Lawn, NJ 07-110 Phone: (201) 791-2448, Tele v: 13-0434

neasys curp, will buy your surplus chemicals, resins and resm raw materials — prime or off-specification, Resyn Corp PO Box 63, 1540 W. Blancke St., Linden, NJ 07036 (201)862 8787

Surplus Chemicala: Wanted, high prices paid-for-surplus chemicals, rasins, pharmaceuticals, colors, plasticizers, solorita, was said, prompt and entrieth service. Try us for botter prices. Chemisales Inc., 107-27 180th. Street, Jama ca, N.Y. 11433 (718) 658-0400-01.

Surplus Wanted: Chemicals, phermecoutcals, dyas, solvenis, promenis, waxes, other rew meteriels. Over 55 years service Chemical Service Oiv., P.O. 80x 848, 97-05 Ongley St., Rockville Centre, NY 11571, (516) 538-5533.

We auy Surplus chemicals, colors, resins, solvents, plest cizers by-products, etc. Over 50 years of service to indus-iry Eestern Color & Chemical Co., Inc. 65 Roosevelt Ave. Dept. C P.O. Box 1029, Vallay Stream, N.Y. 11582 [516]

Zinc &esring by-products, sludges, scrap, will consider all zinc compounds, metallics, etc. Please reply with estimated quantity, typical analysis, and best price F.O.S. origin Write CMR: 738.

EQUIPMENT OFFERED

wells bis for removel costs t 50 Ion dry slorage allo with etand Drumming and bulk capabilities. Construction— Steel Height-approx. 75' w/stend. Inquire McKesson Chemical (201) 636-4680.

Olamentier has used process equipment for sele: Columns, Exchangels, Haaters, Reactora, Pressure Vas-sels, Tanks, etc Midwest Steel Co., Inc. 9825 Moers Road Houston, Taxas 77075, 713/991-7843.

Ribbon Sienders, 600 cu it working capacity, Strong Scott Jacketed, Covers, Stainloss 66 cu it Jecketed, Soveral 125 cn. It Units Also Grushers, Grinding Mills. ctors. (2) Sobcat Skid Stoer Load-

FACILITIES OFFERED

or Loase Liquid Mixing Plant-Relitmore, Mtd. Approx For Coase Liquid Mixing Plant-Relibratore, Mid. Approx. 70.006 sq. It lackey being offered for leave the County of County Ind. County or Chornical Processing Plant, includes Tank Farm and all equipment needed for total production, plant is operational and ready for production. Office and Lab area Approx. 7,000 sq. It. Inquire: Parboit Company, 8200 Fischer Rd., Boltimora, MO 21222, 301-477-5250

FACILITIES OFFERED

Toff Slending — Major U.S. Chemical Specialties manu-lacturer in S.E. Pennsylvania looking for sultable products to toll bland and/or repackage. Adjacent to I-96. Rail sid-ting, 7 loading docks, inside/outside tank terms and large triventory eres. Equipment for dry or wet blanding, indud-ing chemically reacted products. Liquid and paste reactors from 500 to 7 000, set reactors this bookless from 1000. from 500 to 7,000-gal capacity; ribbon blenders from 1000 to 4000-ib sizes; jacketed Nauta-Day mixer with 2000-ib capacity. Packaging facilities include tank truck, wet or dry product bins, steel or fiber drums, 50-lb bags, 5-gal, 1-gal, 8-oz. containers. For information write CMR-739.

POSITIONS OFFERED

Expd Selssperaon/Trader required by long-estebl, and highly rated Chemical Import Company. Chemical degree with Import background preferred. We offer good remunistration with lumpera oet billis, in pregatant and outsiness-like surroundings. Please send, in confidence, detailed resume to: President, Browning Chemical Corp., 330 Madison Ave., New York, N.Y. 10017.

as growing importer of specialty and fine chemicals experienced individual in product development/ ting/sales to promote custom and line chemical acturing capabilities for e major European company n the U.S. Initial thrust would be almed at the pharmaceut or Chamicel Engineering-edvenced degree preferred.
Salary is commensurate with experience. Excellent benefuls peckage. New England location. Reply in confidence to Sox CMR-740.

Merkating end Seles Menager(s)...Aveileble for aggres-alve, oxperienced end knowledgeable person(s) in the New York Metropolitan area to assist management of well-ostablished U.S. importer end distributor of fine and wear-osatistated c.s. importer and distributor of tinta an heavy chemicale and other ingredients serving pharmaceutical, lood, beverage, pet lood, cosmetic, photographic, nilning end other industries. Company has nation-wide sales network. Poetitons(s) enteits organization, coordination and expansion beyond existing sales outlets, establishment of distributorships, sourcing of new products as woll as Iraveling. Technical know-how desirable but not essential. Position (e) are also oltered to person (s) expensaced in sales of leb 8 R&O chemicals. Competitive compensation, profit sharing, incentives and other fringe benefits. Reply to Sox CMR-741.

Selee representative for surfactent sales to cosmittee and opergents industries. Successful candidate will have knowledge of surfactants, five years expenence in sales, and a BS in Chemistry of Chemical Engineering. Company car, sales incentive, attractive benefit program. Send re-sumo to: Mimi Ruch, American Hoechst Corporation. Route 202-208 North, Somerville, NJ, 08876.

Sales news/Commission Agents, newly established trading company with extensive line of pharmaceuticals and leed additives looking for experienced reps with good personal contacts in the industry. Pleasa submit full infor-

SERVICES OFFERED

ACS Chamicals. Sulk or unit pack. Full Line. Call Yvonne 1-800-623-2575 Polysciences, Inc., Warrington, PA

Custom solids packaging and distribution in the port of Mobile, Multi-well begs, bulk begs, drums and bulk, Screening, repeckeging and warehousing. Rell and truck facilities. Contact: Philip Hehn, SEAPAC, Sidg. 14A, Srookley Complex, Mobile, AL 36615, 205/433-3541.

EM Chemicals ...

inorge

Floresynth Inc. . . .

Dense Chemicals, Inc. . .

Glulini Corporation

Grent Chemical Olvision,

reef, R.W. & Co., Inc. ...

ofiniena-La Rocho, inc. .

nternotional Oismantling &

Holtre Cham

fumphrey Chemical Co.

Interchem Corporation.

Mechinery Corp. .

Chemicals Corp.

Kaiser Chomients Koll Chemic Corp.

E.B. Knight, Inc. . .

Lonzo Inc....

International Minerals &

Knoll Fine Chamients, Inc. .

J. Litto Mercor Co., Inc. ...

Montodison USA, Inc....

Nopp Chemicals, Inc.

roses Products, Inc.

R.I.T.A. Corporation evio Chemiceta . Reed Lianin...

hone-Pouteno

oquetta Coro... S.S.T. Corp...

neffiald Producte ...

Stuert Eaulomant Co....

Takada Fellek Seles, Inc...

nion Stenderd Equipman

USS Chemicala, Division of

United States Steel ...

Videx Mechinery Corp.

Inchem Virginia Chamicela Irio....

U.S. Sorax & Chemical Corporation

tyezeel Procese Equipment, Inc.

Wabaah Powar Equipment Co....

Wego Chemicel & Miheral Corp.

Witco Chamical Com.....

White Chemical Corporation,

Texaco Chamical Company ...

tor Chamteni Corporation

heam Menufocturing Company .

helt Chemical Company.....

estattyChem Products Corporation ...

enderd Chlorine Chemical Co., inc. ...

Machinery & Equipment Corp. ...

Modison Equipment Co., Inc. ...

Motro Oil & Chamical Corp..... Milas Lebaratoriae, Inc.

Mitsubisht International Corp...

ovilto Synthose Organics, Inc. . .

Asean Chamicals Industrice, Ltd..

Forro Corporation . .

Gallard-Schlesinger Industries, Inc. . . .

Grein Proceeeing Corperation

Senerel Chamicot

Reconditioned Orums, cut packaging costs. High grade reconditioned steel drums to meet all OOT specs. 15 gallon-85 gallon, Linings our spedafty. Truck load discounts, Used drums removed. Cell Orum Service N.Y. 7 t8/494-0255, outside N.Y. 1-800/828-8913. Walf-esteblished importer and distributor of ingredient for pharmaceutical, lood, beverege, heelth lood, pet foo R&O chemicale with nation-wide seles organization interested in additional distributorships for U.S. and foreign manufacturere. Replyto Sox CMR-738.

SERVICES OFFERED

Petro Lewis Acquisition Set

Freeport McMoRan Inc. hsa agreed lo acquired Petro-Lewis Corporation under a bankruplcy law reorganization in the event that the ongoing tender offer by Freeport-McMoRsn for Petro-Lewis is unsuccessful.

The Freeport tender olfer for Petro-Lewis and American Royalty Company, an affiliate, has fallen short of its original goals because certain holders of a minority of the company's bonds have declined to tender

The agreement on the bankruptcy law proceeding was reached by FPCO Inc., a corporation formed by Freeport and Kldder Peaody & Co. to undertake the tender offer.

The agreed-upon merger under the bankruptcy proceeding would be at a price identical to that of the tender offer.

James R. Moffett, chairman of Freeport McMoRan, a diversified producer of sullur and metals based in New Orleans, La., said that if the plan is confirmed by a definitive agreement, which was expected to be signed on Friday, Freeport would buy common and preferred stock of Denver, Colo.-based Petro-Lewis and American Royalty that has airesdy been tendered

These tenders are aufficient for Freeport to gain control of Peiro-Lewis, an oil and gas partnership, Mr. Moffett said.

4 x 40° Bartleff-Snow Rotary Kiln 3 x 20° Bertlett-Snow Rotary Kiln 3 x 20° Bertlett-Snow Rotary Dryer

M-400 (18") Bird Pusher Centriluga, 316 S/S (2) 18 Bird Horizontal Scraen Bowl Centriluge, 316 S/S

12 x 15' Jailrey Fluid Bed Dryar, S/S 60 Wide Proctor & Schwartz Belt Dryer Multi-Stage Evaporetor System

USED EQUIPMENT

6" x 250" Treylor Rotery Kilns (8) 3" x 43" Traylor Rotary Coolers (6) x 40° Allis-Chalmers Rotary Coolers (6) x 16° Treylor Ball Mills, 450 H.P. (4)

Conveyor-up to 54" wide, up to 500 long x 24" Allis-Chalmers Jew Crusher Size 322 Allis-Chalmers Hydro-Cone Crusher 250 TPH Pennsylvanie Ha

x 30' Chatanooga Peddia Mixer (2 B x 12' Chatencoge Peddle Mixer (2) Misc. Pumps, Compressors, Screens, Tenks, Dust Collectors, Feeders and Convayors.

SEE FULL PAGE AD NEXT WEEK

Federal Equipment Company 6200 Bessemer Avenue

Cleveland, Ohio 44127 • 216-271-3500

Acquistion

We are interested in acquiring additional businesses.

Our Criteria Are:

Chemical related — direct or indirect.

2. Profitability - present or luture.

3. Parsonnel — compatibla and axpariancad.

1. Wa supply additional capital 2. Growth from complamentary

Incrassed profitability 4. Liquidity of equity

If interested in exploring further, pleass contact:

T.L.Cuajeo Berger & Company 1050 Sansoms Street Sen Frencisco, CA 94111

· CHEMICAL MARKETING REPORTER October 20, 1986

ADVERTISERS' INDEX

A-1 Chemicol Equipment Co. . . ACIC LId..... Aok ash Chemical & Oyestuifs, Inc. . Aaron Equipment Company ... Alay Chomicals, Inc. ArChem Company. Atocham Inc. tomorgic Chametals Corp. ... **AASF Wyondotte Corp....** aellour, Mclaine Chomicele Inc... Assic Chemicele Oerger & Company . CdF Chamle North America, Inc. ... CPS Chemical Co..... Celebrian Internetional Corp. Chamicel Oynamics Corp.... Chileen Nitrote Sales Corp... learing Conteiner inc..... Concord Chemical Company, Inc. . 0&O Chomicals Inc Deepwater Chemical Co., Ltd. Daguese Corporetion. Ougher Nutrition, Inc. Eestmen Kodak Co. Essex Chemical Corporation eirmount Chemical Co., inc. adarel Egulpment Company.

> Henry H. Pavony, who has been appointed contion. Mr. Pavony Joined Olin in 1975 es manegar of general and pient accounting for the chemia group end aarvad most racently ee maneger of financial control and reporting.

WILLIAM C. KUHLKE has been named vice-president of olefins at DeWitt & Co. Inc... FREDERICK J. PASSMAN has been appointed technical field service manager of blocides 81 Angus Chemical Company...

WILLIAM H. WERST JR. has been named business development manager for the concrete and aspha(t additives business of the specialty chemicals department of Dow Chemical Company.

BRUCE A. BENNETT has been appointed director of quality management at Celanese







R. Sunbury

Hoffmann-La Roche

tions at the headquarters in Nutiey, N.J.

has been named manager of business devel-

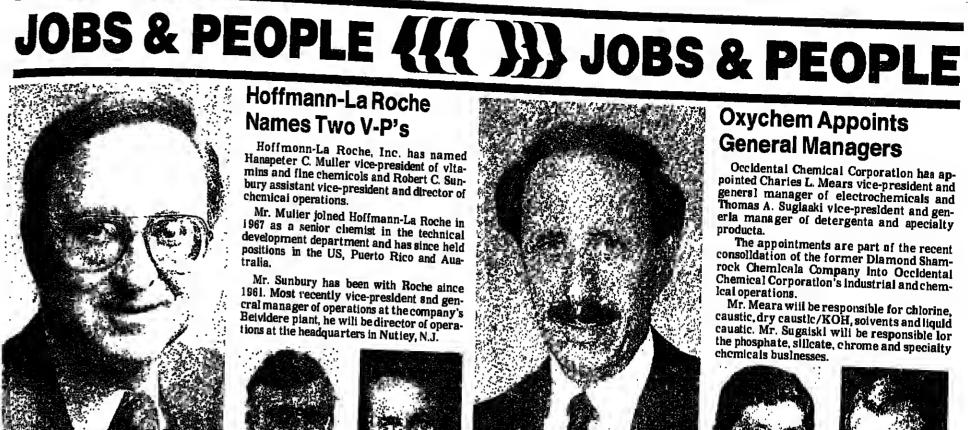
opment for chemicals at Degussa Corpora-

tion... FRED YOUNG has been appointed

Names Two V-P's

chemical operations.

salcarepresentative for Soitex Polymer Corporation's "Fortiflex" polyethylene resins. DOUGLAS D. KREBILL hos juined Duphar Nutrition, Inc. of Waukegan, Illinola, ss director of marketing and as les... GERRET M. PETERS JR. has been named market davelopment manager for Colorim Systems, a



Herbert V. Pomerantz, who has been elected vice-president of polymers in the Chemicels Division of Unoce) Corporation. Mr. Pomerantz will be responsible for the petrochemical group's polymar business unit. Ha joined Unocal in 1980 upon the ecquisition of Calenese Opacieties

Chemical Company... JUAN G. ANDRADE joint venture whose parent companies are American Cynnamid Company ond Recticel Foam Corporation ... CLIFFORD II. SCHWEITER has been appointed to the newly-created position of director of electronic imaging at Du Pout Company ... PAUL C. VOET has been elected executive viceprealdent and chief operating officer of Chemed Corporation.

> PETER HEFELE and NATHAN MAGIT have been appointed sales representatives



Oxychem Appoints General Managers

Occidental Chemical Corporation has appointed Charles L. Mears vice-president and general manager of electrochemicals and Thomas A. Suglaski vice-president and generla manager of detergenta and apecialty

The appointments are part of the recent consolldation of the former Diamond Shamrock Chemicala Company Into Occidental Chemical Corporation's Industrial and chemlcal operations.

Mr. Meara will be responsible for chlorine, caustic, dry caustic/KOH, solvents and liquid cauatic. Mr. Sugaiski wili be responsible lor the phosphate, silicate, chrome and specialty chemicals businesses.



C. Meera

T. Sugeleki for the Fine Chemicals Division of EM Industries, Inc... E. CARLTON TOWNES has been eiccted vice-president and controller of A.H. Robins Company... J. PAUL ROSCOE has



been named sales representative for Englehard Corporation's chemical catalysts and processes department.

KEVIN D. CUCCI has been appointed technical marketing apecialiat in the adhasives department of National Starch & Chemical

BUSINESS BRIEFS **BUSINESS BRIEFS**

ALLIED CORPORATION aays It has developed new, perms nently conductive resins for s offer a unique combination ol stiffhess, high impact at rength and electrical conweilylly. The high-density polyethylane

W.R. GRACE & CO. has appointed New Eng
OLIN CORPORATION has infroduced a new surfactant that is low-fosming, stable at high resins are sold under the "Paxon" name.

meni of a form of lung cancer known as amail

GOODYEAR'S CHEMICAL DIVISION has MOBAY CORPORATION has introduced

bility of greatly increasing polymer oxidation protection, according to the product as a "propring applications. The company claims like the product as a "propring offer a unitarity conductive resins for the protection, according to the product as a "propring offer a unitarity conductive resins for the protection, according to the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a "propring of the product as a produc tional oxidation resistance."

ISTOL-MYERS COMPANY has introdated "VePesid" (elopos(de) for use in comblastico chemical del composition chemical del comblastico chemical del composition del comdispersants. New England Resins will repredispersants. New England Resins will reprebhatloo chemotherapy as first-line treattell lung carcinoma. Bristol-Myers saya the biroduction merks the first time in over a the first time in over a description may be that time in over a description may be that a chemotherapeutic agent for the first time in over a description may be that a chemotherapeutic agent for maintain description may be the first time in over a description may be the first time in o

hitroduced "Wingstay K", an easily emulsill-two diamine extenders for TDI prepolymers, which broaden the flexibility of available

tachnology for the production of cast to separate air into a nitrogen at ream and an polyurethane elastomars, according to the company. The chaln axtenders, "Baytac" 1604 and I10, were developed by Bayar AG, Mobsy'a parent company in West Garmany,

temperatures and highly soluble in alkalline builders and bases, the company says. Called "Poly-Tergent" CS-1, the anionic surfactant stable at high meets USDA requirements and is specifically designed for use in liquid alkaline lormulations, Ohn says.

PERMEA INC., St. Louis, Mo., has commercialized advanced membrane systems that generate nitrogan on site lor as little as a tentb tha price of merchani nitrogen, accordoxygen-rich atream.

PFIZER INC.'S oil lleid products group has opened olfices at 450 Gears Road in Houaton. Tax. the new headquarters location initially will house the administrative and sales ataff. The group apecializes in xanthan biopolymer chamicals for anhanced oll recovery. Its fermentation-derived products are used as moblity control agants in micellar floods, polymer-thickenad water floods and alkaline

POLYSAR LIMITED says it will invest \$1.8 million as the first step in commercialization of "Tornac"hydrogenated butadiene-acry-lonifrila rubbers. Polysay has selected a site in North America for the manufacture of the ing to the firm. The nitrogen systems, called specialty alastomers, which until now have 'Prism Alpha', use hollow fiber membranes heen produced in pilot plant quantities.

CHEMICAL PROFILE

CYCLOHEXANE

SUPPLY	
PRODUCER	CAPACITY
Champlin, Corpua Chrieti, Tex	
Chevron, Port Arthur, Tex.	39
Phillips, Borger, Tex	40
Phillipe, Guayama, P.R.	80
Phillipe, Sweeney, Tex	
Sun, Tulea, Okla	
Texaco, Port Arthur, Tex	<u>2</u> 0
Unocel, Beaumont, Tex	30
Total	1.00
I Otali, and a second and a second and a second	

*Milliona of gailona per year. Champlin will boost it an amepiate to 28 million gallons next year by debottlenecking it a Corpue Christi plant. Du Pont hes 50-million gellons ot capacily et Corpus Christi temporarily idied while the compeny secures a source of hydrogen for the plant. The facility, which was closed in July, is expected to reopan early next year. Phililps maintains e 90-million gallon swing fecility at Swaenay which is currently idle, but is expected to reopan in Novamber. The facility was operated for the entire first hall of 1986. Sun added 4-million gallons of especity through dabottlenecking ita Tulaa plant laet year. Profila lest publishad 12/5/88; this revision, 10/20/86.

DEMAND

1985: 234 million gallons; 1986: 279 million gallons; 1990: 306 million gellons.

Hietorical (1976-1985): minus 0.6 percent per year, future: 21/2 percent per year through 1990.

Hietoricel (1952-1986): High, \$1.85 per gellon, tanks, works, low, 20c. per gellon, seme basis. Current: 99.25c.-\$1.0025 per gellon, bulk, barges, works.

Adipic acid for nylon 66, 57 percent; esprolactam for nylon 6, 29 percent; exports, 13 percent; other, 1 percent.

An upturn in housing sterte this year, sparked by lower interest rates, hes created a boom in the residential nylon carpeting merket. This combined with nventory depletion programs lest year, will push cyclohexane production up 19 percent this year. Nylon engineering raeins ere growing 8 parcent annuelly. The shutdown of Gulf Caneda's cyclo unit last year has crested 17 million gallons of edditionel export damend this yeer.

WEAKNESS

Collapsing raw material banzens prices, pulled down by the steep plunge in crude oil prices earlier this year, dragged cyclohexane prices down from \$1.30 per gellon in Jenuary to en 85 cent per gallon low in April.

Cyclo demand has been tight eince Du Pont closed its Corpue Christi plant in July and Phillips idled its 90-million gallon Sweeney ewing plant. However, Sweeney will reopen next month, end Du Pont may be beck early next yeer, and when both fecilitiae are running, supply will be ample. There is talk the Gulf Canada fecility (rated at 30-million gallons) will be reopened under new menagsment, but the fate of the idled facility remeins unclear. Demand for carpeting will ireck GNP, while resin use will grow etrongly.

Continued from Pege 45

Universa) Yokohama, 8/11.
METHYL, OHYOROJASMONATE Mitsul 17 dms (757)

MIGLYOL Cynamit Nobel 22 bri (8645 lbs) (Rouen) Rotter-dem, 8/18.

MINERAL WAX Strohmeyer 8 Arpe 441 bgs (44870 lbs) (Ever Growth) Hemburg, 9/15.

MONO PENTAERYTHRITOL Recochem 1400 bgs

MONOSCHUM GLUATAMATE Alinomoto 720 dms

bs) (Klso Marul Tokyo, 8/13. MLM Express 770 pkg (38188 lbs) (Ocean Legend)

von scrieven our uga (erocur las), reserven santos, 8/(8. MORPHOLINE 1 bks (9932 lbs) (Stolt Integrity) Rotter-

182 bgs (10337 lbs() Ming Universe) Kobe, 9/11.
POLYPROPYLENE H C Peul Park 4 bga (225 lbs) (Kieo

(Ever Growth) Hamburg, 9/15.

POTASS HYOROXIGE NF Melfinckrodt 338 dma (39) 85 lbs) (Atlantic Compass) Gothenburg, 8/16.

POTASSIUM FERRICY ANIOE Atlantic Raw Materiels 250 dms (303) 3 lbs) (Ever Growth) Hamburg, 9/15.

POTASSIUM PERCHLORATE IMCO ICO Group 150 dms (4) 887 lbs) (Allantic Compass) Gothenburg, 9/15.

BASBAFRAS OIL 48 dms (23433 lbs)(American North Ca) Pagnagua, 9/18.

SEBACIC ACIO Hexagon Enterprises 720 bgs)39782 lbs)
(Ming Universe) Hong Kong, 9/t 1.

METHANOL Gentrade t bks (9259404 lbs) (Bow Star) Bahrein, B/22. METHYL CELLULOSE Mitrana 98 dms (8581 lbs))Ming

iba))Ming Universe) Kobe, 9/11.
METHYL ETHYL KETONE (bks)(101083 lbs) (Shoun

Gelaxy) L Avbers, 9/21.
METHYL ETHYL KETOXIME John Weldner 78 dms (32759 lbs((Heide) Rotterdam, 9/21.
Miteul 80 dms (37390 lbs) Ming Universe) Kobo, 9/11.
METHYL P TOLUENE SULFONATE Leyden Customa Expeditions 15 dms (8433 lbs) Ever Guide) Koelung, 9/18.

(79862 libs) (Copiapo) Valoaraiao, 8/18.
MCNOBUTYL META CRESOL Built Tank Containers t

)78001 (bs))8avannah) Santos, 9/13. MONOSOOIUM GLUTAMATE A tinomoto 200 cin (7837

Bulan, 9/11.
Tal Wing Hong Imports 580 dme (83801 lsb) (800gebila) Keelung, 9/13.
Von Scheven 800 bgs (40585 lbs)) American North Ce)

dem, 9/11.

PHENYL ETHYL ALCOHOL Polarome Mig 80 dme (38877 lbs) (Ming Universe) Yokohama, 8/11.

PHOSPHORIC ACIO 1 bks (224783 lbs)) Stolt Integrity)

PROTEINED AGO 1 DAS (229765 IDS) (3004 INESURY)
Rotterdem, 9/tt.
POLYETHYLENE Burlace Air Inti t pit)t 499 ibs) (Aliantic Song) Rotterdem, 9/21.
POLYMETHYL METHACRYLATE RESIN Chorl America

POLYPHOPYLENE H C Peul Park 4 bga (225 lbs) (Kiao Maru) Tokyo, 9/13.

POLYPYLENE DICH-LORIOE Leschaco 1 ink)45371 lbs) (Evar Growth) Rotterdam, 8/t 5.

POLYVINYL ALCOHOL Marubani America 800 bga (40558 lbs) (Regine Meersk) Kobe, 9/11.

Perry Chemical 770 bga (38847 lbs))Ever Guide) Keelung. 9/18.

Keelung, 9/18.

Keelung, 9/18.

POLYVINYL CHLORIOE Tarkett 759 bgs)43431 lbs)

POTASSIUM PERCHLORATE IMCO (CO Group 150 dma (41 887 lbs) (Allantic Compess) Gotherburg, 9/15.

POTASSIUM PERMANGANATE American Intl Chemical 158 dma (45418 lbs) (Sea Land Oeveloper) Rottardam, 9/16.

POTASSIUM SULPHATE Sative Chemicala 180 dms 141687 lbs) (Sirius) Bremen, 8/13.

105 dms (32638 lbs) (Alexandra) Bremon, 9/20.

PROCAINE PENICILLIN G American Cyanemid 200 dma 123810 lbs) INdeo Maru) Nagoya, 8/13.

PYCHINE 4 ALGOXINE Max Gruenhut 13 dms (1548 lbs) (Alexandra) Reported (Alantio Service) Rotterdam, 9/15.

PYCRINE 4 ALGOXINE Max Gruenhul 13 dms (1548 lbs)
(Atlantio Service) Rotterdam, 9/15.

PYRIOCXIOE HYCROCHLORIDE Gyma Leborstorias 40 dms (2206 lbs)(Rijeka Express) Rijeks 9/15.

PYRIOOXINE Amsigamated Metal 40 dms (2489 lbe)
(Regina Maeral) Hong Kong, 8/11.

OUEBRACHO EXTRACT BLOCK Barkay Intl 365 lbge (38888 lbs) (Savanneh) Buenoa Airee, B/t 3.

ESAME Oil House of Lewrence 850 cin (27227 lbs) [Yu Ho) Kobe, 9/18.

500tUM ACETATE 590 hgs (33180 lbs) (Yu He) Shang-

hei, 9/10. 500:UM ALGINATE F B Vandegrift 120 bgs (8911 bg)

SOCIUM ALGINATE F B Vandegrift 120 bgs (6911 bgs)
(5 brust Let Invrc, 9/13
SODIUM BICAITBON ATE VITSUA Products 2874 bgs
(202998 libet (Evrir Growth) Antwerp, 9/15.
SOCIUM BISULFITE TECHNICAL General Plastic & Chomical 350 bgs (39639 lbs) (Heids) Botterdam, 9/21.
SOCIUM BROMATE Ameritarim 940 dms (196671 bg) (Argonauti Halfo, 9/10.
THOUREA Sokat Trdg 775 pkg (38540 lbs) (Ocean Legendt Yokohame, 9/11.
TITANIUM CHLORIOE ALIPHATIC HYOR Stauffer Chemical 54 dms (1 5000 lbs) (Sea Land Leader) Algebra, 9/17.
Slautifer Chamical B7 done (19667) 9/17. Slauttor Chamicat B7 dons (28081 lbs) (Sea Land

Loader) Algeorns, 9/17.
TITANIUM OIBORIOE POWOER GTE Products 1 cs (128) Itis) (Allantic Compass) Liverpool, 8/15.

Tri ANIUM CIOXXCE B H Roctiker 880 bgs 144137 80

(Son Lund Loader) Algeches, 9/17. C N Lukons 540 bgs (33797 lbel) Ever Shine) teghon. B/21. ON Luxens Chemical 1780 bgs (88273 bs) [Seg Land

Loader) Algacines, 9/17.

Corsett & Jackson 1780 bgs (88273 bs) (886 Land Loader) Algectras, 9/17.

NL Ind 900 bgs)1857 t 7 lbs) (American Aquatius) Rej SCM 4400 hgs (227254 lbs) (5sa Land Gevelops) Ro-

Superior Materials 540 bgs (33223 lbs) (Ever Shire)
Loghern, 9/21. skoy Raw Motorial 1520 bgs (79180 bs) (Władysie Sikorek) Bromorhnyan, 9/18. N L Ind 4800 bgs (2-15930 lbs) (Sea Land Dayeoper

Bremorhaven, 9/10, 2700 bis (Clea Leng Develope) 2700 bqs (139287 lbs) (Allentic Song) Rotterdem, 9/2. N L ind 4800 bgs (248943 lbs) (Władyelaw Sikorsi, Rottordem, 9/16. TANIUM TIOXIOE Blue Bell Chemical 2400 bgs (132277 lbsd))See Land Oeveloper) Rotterdam, 9/16. NL Ind 8000 bge (41 4906 lbs() Ever Growth) Antwer,

9/15. BIAS ACIO POWOER Montadison 20 bbg (3885) bg)Finnwhole Maraella, 9/12. LUENE OISOCYANATE Klocknar Chemical 78 des

145741 lbs) (Coplepo(Velpareiso, 9/18.
TRICHLORACETYLE CHLOREURE Rixing Poulers 19
pkg (7407 lbs) (Independence) Marselle, 9/22.
TRICHLORO ISOCYALURIC ACIO 375 dms (11 6222 bd))Ming Universe) Kobe, 8/11.
TRICHLOROETHYLENE ALTENE DB 1 bas 11 t02990 bg

Shoun Venguard) L Avere, B/20.
TRIHYOROXYBENZOPHENONE Leyden Customs Expeditors 73 (Ims (4828 ths) (Ming Universe) Kobs, 9/11
TRIMETHYL CYCLCHEXENYLMETHYLBUTE 78 678 (34404 lbs) (Atlantic Song) LeHavre, 9/21 METHYL PHENOL Stolt Tank Containers 1 trk (359)3

Ibs((Ming Universe) Kobo, 9/11. RIPHENYL PHOSPHATE 1280 bgs (73546 lbs) (Aliento Compass(Liverpool, 9/15 RISILICATE PHARMA Robeco Chemicals 24 bgs) 1336

ibs()Allanic Song Rollerdam, 9/21, SOOUM CITRATE OIHYORATE ORAN 800 by (45415 lbs) (Ever Growth) Antwerp, 8/15 TRISOOUM PHOSPHATE 700 bgs (39044 lbs) (America Kontucky) Koha, 9/15 TUNG OIL Almor OII 1 bks (061380 lbs) (Savanneh) 8uene

Aires, 9/13. Ind Oil Products 1 Liks (G01300 Rts) (Sayannah) Buend Aires, 9/13.
URPENTINE GUM Relimor Mariens 1 con (44710 lbs)
)American North Cal Paranagua, 9/18.

ULTRAMARINE BLUE Elco Shpg 18 pli (41354 lbs)

(Heide) Rotterdons, 9/21.
Elco Shop 8 pit (25) 06 lbs() Holde) Rotterdem, 9/21.
Bloo Shop 10 pit (41310 lbs)) Heide) Rotterdem, 9/21.
VOL 800 ltgs (34430 lbs) (Atlantic Compass) Liverdon NILLA BEANS CUTS Food Materiela 42 ctn (2390 bg)Kiso Maru) Tokyo, 9/13. VANILLIN 180 pkg)24048 lbsf)Ocean Legens) Kobs

9/11.
178 dins (24322 lbs) (Yu Ho) Derlen, B/18.
XYLENOL 2 Ink (85091 lbs) (Skrius) Rotlerdem, 8/13.
YTTRIUM OXIOE Minnistrie 10 pkg (1087 lbs) (Ocean Legend) Kobe, 9/11.
Oro & Chonical 35 pkg (4310 lbs) (Ocean Legend)

CONIUM CARBONATE Magnesium Elektron 380 cm 181 380 lbs) (Sirkie) Folixstowo, 9/13. ZIRCONIUM OXIDE M € 180 dma (41587 lbs) (Alexandra)

Follostriwo, 9/20.
ZIRCONIUM SULPHATE POT Magnesium Electron 1%
ZIRCONIUM SULPHATE POT Magnesium Electron 1%
ZIRCONIUM SULPHATE POT Magnesium Electron 1%
ZIRCONIUM SULPHATE POT Magnesium Electron 1% MEETINGS CALENDAR

SPECIALTY CHEMICALS

Amine Monomers

t-Butylaminoethyl Methacrylete Diethyleminoethyl Acrylate **Dimethylaminoethyl Acrylete** Diethylaminoethyl Methacrylate Dimethylaminoethyl Methecrylate

Quaternary Monomers Diethyleminoethyl Acrylate,

Dimethyl Sulfate Diethyleminoethyl Acrylete. Methyl Chloride

Dimethylaminoethyl Acrylete, **Dimethyl Sulfate**

Dimethyleminoethyl Acrylate. Methyl Chloride Dimethyleminoethyl Methacrylete. Dimethy! Sulfate

Dimethyleminoethyl Methacrylate, Methyl Chloride **Dimethyl Diellyl Ammonium Chloride**

Cross Linking Monomers Allyl Methecrylete **Ethylene Glycol Dimethacrylete**

Diethylene Glycol Dimethacrylate

Higher Alkyl Ester Monomers

n-Hexyl Acrylete Isodecyl Acrylete Lauryl Acrylate Phenoxy Ethyl Acrylete Cyclohexyl Methacrylete Isodecyl Methacrylate Leuryl Methacrylate Steeryl Methecrylate

Ether Monomers Methoxyethyl Acrylete Tetrehydrofurfurvi Acrylete Tetrahydrofurfuryl Methacrylete

Glycldyl Ether Monomers Allyl Glycldyl Ether **Butyl Glycidyl Ether** Dispersants/Flocculants

poly (Dimethyl Diellyl Ammonium Chloridee) **Emuleion Polymers Mennich Reaction Products** Mennich Reaction Quaterneriee Polyacrylic Acids Sodium Polyacrylates Sodium Polycarboxylates **Solution Polymers**

Other Specialties Anleole

Butylcyclohexyl Phthalate Butyl Lactate 1,4-Dioxane 4,6-Dinitro Ortho Cresol **Ethyl Lactete**

Isoamyl Alcohol Nephthenic Acids Triethylene Glycol Tetraethylene Glycol

MANUFACTURING SERVICES

Unit Processes

Alkylation Chlorination Esterification Methylation Nitration Quaternization Sulfonation Transesterification

Distillation Batch Continuous Extractive **Full Vacuum** High Temperature **Super Fractionation Tempered Water** Wiped Film

Other Services Blending/MixIng Centrifuging Crystallization Filtration **Pilot Plant** Solids Handling Vacuum Drying

CPS offers a very broad range of specialty chemical processing and solvent refining services, including custom manufacturing of specialty monomers and polymers, at two large, modern, well equipped facilities located in Old Bridge, New Jersey and West Memphis, Arkansas.

> Write for—PROCESSING/FACILITIES BULLETIN #683 **SPECIALTY CHEMICALS CATALOG #483**

CPS CHEMICAL COMPANY P.O. BOX 162, OLD BRIDGE, NJ 08857

> OLD BRIDGE, NJ (201) 727-3100

W. MEMPHIS, AK (501) 735-8750



October 20, 1986

CHEMICAL MARKETING REPORTER

ABSOCIATION OF THE NON-WOVEN FABRICS INDUS-TRY, eighth international conference and exposition. CHEMICAL GROUP, NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT, Fall Conforence,

THIS WEEK

AMERICAN MICROCHEMICAL SOCIETY, eastern ana-

lytical symposium, jointly with American Chemical So-cety and Society for Applied Spectroscopy. New York Hiton Hotel, New York, October 20-24.

CHEMICAL RPECIALTIES MANUFACTURERS ASSOCI-ATION, seminar on aerosol (echnology, Ramada Hotel O'Hare. Rosemont, III., October 27-28. COMMERCIAL DEVELOPMENT ASSOCIATION, Impact of mergers and acquisitions on the future of technol ons, Flershey Hotel, Merahey, Pa.,

EUROPEAN PETROCHEMICAL ASSOCIATION, disul-October 19-22.

FIRE RETAR CANT CHEMICALS ASSOCIATION, Fall conference on proper processing and selection of llame retardants, Klawah Island, S.C., October 19-

NOVEMBER

7th Symposium on Pesticide Formulations and Appli-cation Systems. Phoenix Hilton, Phoenix, Ariz.

ORUG, CHEMICAL & ALLIEO TRADES ASSOCIATION,

OCTOBER

AMERICAN AGSOCIATION OF TEXTILE CHEMISTS & COLORIATS, International conference and exposi-tion, Westin Peachtree Pleza Hotel, Atlanta, Ga., Oc-tober 2S-31.

AMERICAN PSTROLEUM INSTITUTE, annual meeting. San Francisco, Caid., November 9-11.
AERICAN GOCIETY FOR TESTING AND MATERIALS.

CHEMICAL MARKETING RESEARCH ASSOCIATION, business school, personal computers in the work-place, Scanticon Executive Conference Center, Princeton, N.J., November 5-7.

Fall lunchaon, Waldorf-Aatorie Hotel, New York,

EUROPEAN PETROCHEMICAL ASSOCIATION, Intermodel transport seminar, Frankfurt Sharaton Hotel, Frankfurt, West Germany, November 20-21.

FERTILIZER ROUNC TAGLE, Sheraton Inner Harbor Ho-tel, Beltimore, Md., November 17-18. FRAGRANCE MATERIALS AGGOCIATION ATES, 10th international congrass of ea-

eantial oils, fragrances and flavors, Omni Shersham Hotel, headquarters hotel, Washington, O.C., Novem-ber 18-20. K-'86, 10th international trade fair for plastics and rubber, Ousseldorf, West Germany, November 6-13. LATIN AMERICAN PETROCHEMICAL ASSOCIATION,

sixth annuel meeting, Ric Palace Hotel, Ric de Jameiro. Grazil, November 23-25. NATIONAL PAINT & COATINGS ASSOCIATION, 99th annual meeting. Atlanta Hiton Hotel, Atlanta, Ga., LATER ON

CHEMICAL MARKSTING RESEARCH ASSOCIATION

CHEMICAL OPECIALTIES MANUFACT ATION, 73rd ennuel meeting, Marriott's Herby Sea Resort, Fort Lauderdals, Fla., December 7-11.

BOAP AND DETERGENT ASSOCIATION SOR N Meeting and industry Convention. Soca Rain less and Club. Soca Reton, Fig., January 29 Fabruary 1987.

CHEMICAL MARKETING REPORTER

October 20, 1986 : 1

CHEM 6HOW, 42nd exposition of the chamical indus Jacob K. Javila Convention Center, New York, New York, Oscember 7-10.

October 20,1986

Houston Meeting: The US Chamice Industry apponding to Change, "Westin Galleria Hotel House, Tex., February 4-5, 1987.

NATIONAL ASSOCIATION OF CHEMICAL DISTRIB TORG, 15th enruel meeting, Ritz-Carllon legel tel, Neples, Fla., December 2-6.

THE FER THUZER INSTITUTE, 1987 ATTIVE ME riett Orlando World Center Orlando Fig. 13, 1987